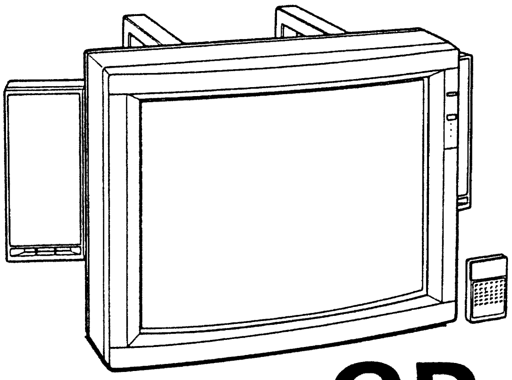
KV-3400/KV-2900

SERVICE MANUAL

GE Model

Chassis No. SCC-C41A-A



GP-2A CHASSIS

Note: The service manual for RM-679 MT have been issued separately.

MODELS OF THE SAME SERIES	
KV-2900T	

SPECIFICATIONS

Television standards	B/G, H, I, M, D/K
Color system	PAL, SECAM, NTSC$_{4.43}$, NTSC$_{3.58}$
Channel coverage	See "Receivable channel by channel system" on page 2.
Picture tube	29-inch (approx. 72.4 cm) Trinitron tube (approx. 68 cm picture measured diagonally) 110-degree deflection
Antenna	75-ohm external antenna terminal
Inputs	VIDEO-1, 2 (phono jacks) Video: 1 Vp-p, 75 ohms, unbalanced, sync negative Audio: 0.5 Vrms (standard level, 47 kilohms) S-TERMINAL (4-pin mini DIN) Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms VIDEO 3 (21-pin connector) CENELEC standard
Outputs	MAIN MONITOR OUT (phono jacks) Video: 1 Vp-p, 75 ohms unbalanced, sync negative Audio: 0.5 Vrms (standard level, 47 kilohms) EXT SPEAKER (Speaker terminals) Accepts 8-ohm speakers
Speaker	15 W + 15 W, Impedance 8 ohms
Power requirements	110−240 V AC, 50/60 Hz
Power consumption	180 W
Dimensions	Approx. 673 × 542 × 525 mm (w/h/d) (26 1/2 × 21 3/8 × 20 3/4 inches)
Weight	Approx. 52 kg (114 lb 10oz)
Accessories supplied	RM-679MT Remote Commander with 2 R6 batteries (1) Speakers with speaker cords (1 pair) Power cord plug adaptor (1)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

Receivable Channel by Channel System

MIDDLE EAST/ASIA (B/G, H*)

Receivable Channel	Channel Display
E-2 to E-12	C02 to C12
E-21 to E-69	C21 to C69
Indonesia	
2 to 11	C03 to C12
Morocco	
M-4 to M-7	C70 to C73
M-8 to M-10	C08 to C10
New zealand	
2	C03
3	C04
4 to 9	C05 to C10

CATV WEST EUROPE (B/G, H)

Receivable Channel	Channel Display
S-01 to S-03	C42 to C44
S-1 to S-20	C01 to C20

AUSTRALIA (B/G, H)

Receivable Channel	Channel Display
AS-0 to AS-11	C00 to C11
AS-5A	C12
AS-28 to AS-69	C28 to C69

HK/UK (I)

Receivable Channel	Channel Display
Hong Kong, United Kingdom	
B-21 to B-68	C21 to C68
Ireland	
B, C,..., J	C02, 03,..., C09
South Africa	
4 to 13	C04 to C13
21 to 68	C21 to C68

E. EUROPE/CHINA (D/K)

Receivable Channel	Channel Display
East European countries	
R-1 to R-12	C01 to C12
R-21 to R-60	C21 to C60
China	
C-1	C01
C-2	C02
C-3	C13
C-4	C03
C-5	C04
C-6	C14
7 to 12	C06 to C11
28 to 34	C28 to C34
39 to 63	C39 to C63

AMERICA (M)

Receivable Channel	Channel Display
2 to 69	C02 to C69
Japan	
J-5 to J-11	C07 to C13
J-13 to J-62	C14 to C63

CATV AMERICA (M)

Receivable Channel	Channel Display
2 to 13	C02 to C13
A-1	C99
A-2	C98
A-3	C97
A-4	C96
A-5	C95
A-6	C06
A-7	C05
A-8	C01
A, B,..., W	C14, C15,...C36
Japan	
J-1 to J-3	C95 to C97
J-5 to J-11	C07 to C13
J-12	C23

*TV system

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND ⚠MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

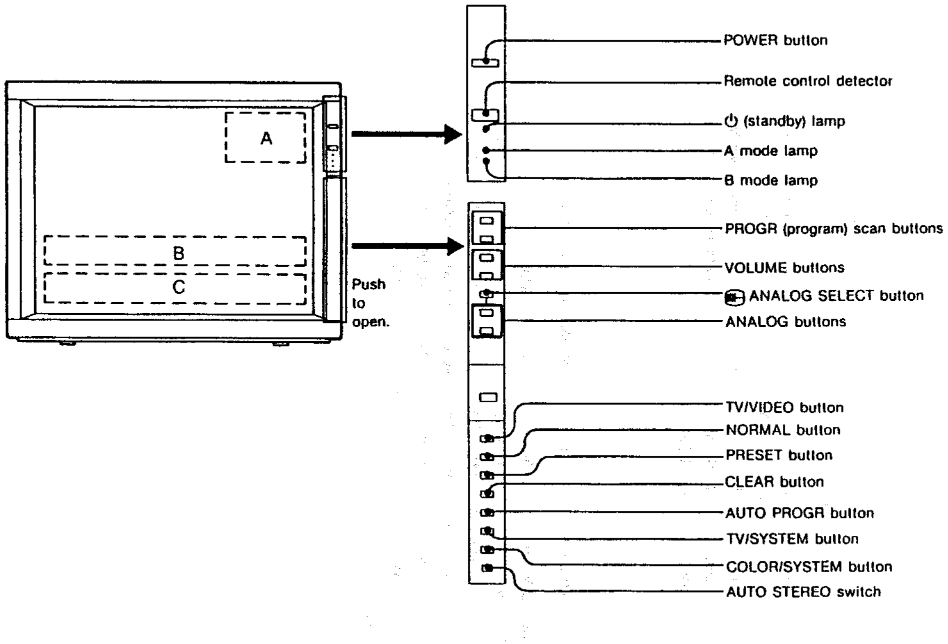
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

1-1. LOCATION OF CONTOROLS

Front


A
B
C
Push to open.
POWER button
Remote control detector
⏻ (standby) lamp
A mode lamp
B mode lamp
PROGR (program) scan buttons
VOLUME buttons
ANALOG SELECT button
ANALOG buttons
TV/VIDEO button
NORMAL button
PRESET button
CLEAR button
AUTO PROGR button
TV/SYSTEM button
COLOR/SYSTEM button
AUTO STEREO switch

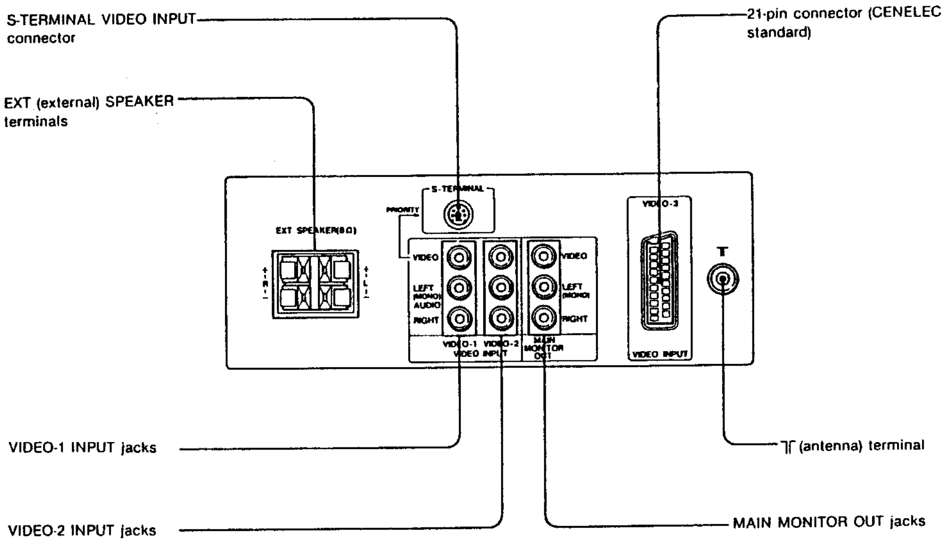
On-screen displays

A
- Program position and station name or channel number
- Video input mode

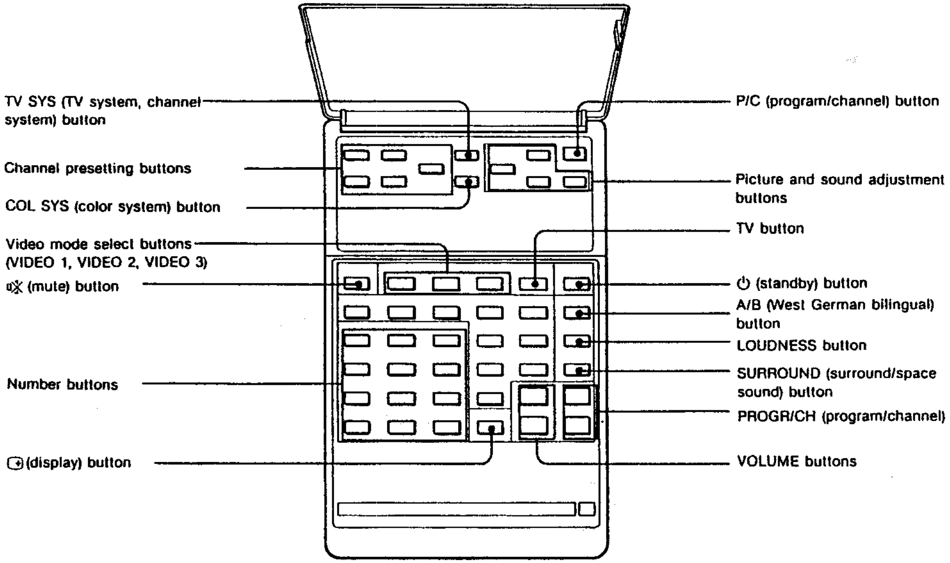
B
- Channel system
- TV system and color system

C
- Item and bar display for volume, picture and sound adjustments
- Surround/space sound, loudness and muting modes

Rear


S-TERMINAL VIDEO INPUT connector
EXT (external) SPEAKER terminals
21-pin connector (CENELEC standard)
EXT SPEAKER(8Ω)
S-TERMINAL
PRIORITY
VIDEO
LEFT (MONO) AUDIO
RIGHT
VIDEO-1 VIDEO-2 VIDEO INPUT
MAIN MONITOR OUT
VIDEO-3
VIDEO INPUT
VIDEO-1 INPUT jacks
VIDEO-2 INPUT jacks
╥ (antenna) terminal
MAIN MONITOR OUT jacks

Remote Commander RM-679MT


TV SYS (TV system, channel system) button
Channel presetting buttons
COL SYS (color system) button
Video mode select buttons (VIDEO 1, VIDEO 2, VIDEO 3)
🔇 (mute) button
Number buttons
⊡ (display) button
P/C (program/channel) button
Picture and sound adjustment buttons
TV button
⏻ (standby) button
A/B (West German bilingual) button
LOUDNESS button
SURROUND (surround/space sound) button
PROGR/CH (program/channel)
VOLUME buttons

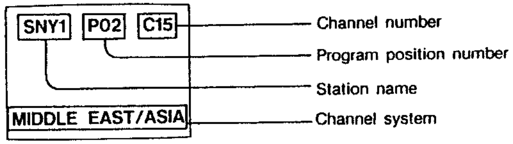
1-2. PRESETTING CHANNELS

Both automatic and manual presetting are available.

Before Presetting

- Turn on the TV.
- If the "VIDEO 1", "VIDEO 2" or "VIDEO 3" indication is displayed on the screen, press the TV button so that a program or channel number is displayed.

On-screen display during presetting


SNY1
P02
C15
MIDDLE EAST/ASIA
Channel number
Program position number
Station name
Channel system

Each time TV SYS is pressed in the channel presetting mode, the channel system changes as follows:

MIDDLE EAST/ASIA → CATV W.EUROPE → AUSTRALIA → HK/UK

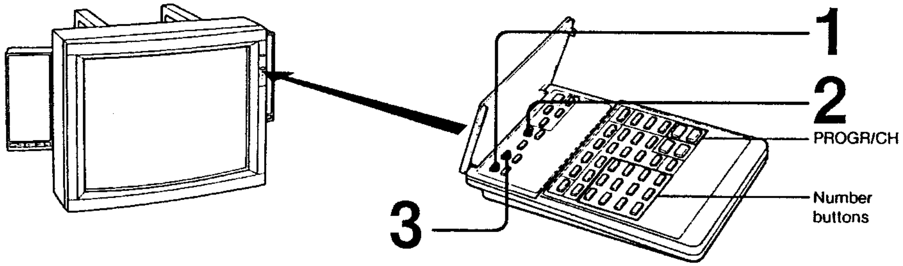
└CATV AMERICA ← AMERICA ← E.EUROPE/CHINA ←┘

The TV system and color system are automatically set according to the channel system.

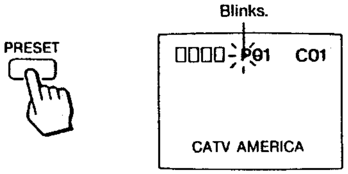
Channel system	TV system	Color system
MIDDLE EAST/ASIA	B/G,H; West European TV standard	AUTO
CATV W.EUROPE	B/G,H; West European TV standard	AUTO
AUSTRALIA	B/G,H; Australian TV standard	AUTO
HK/UK	I; British TV standard	AUTO
E. EUROPE/CHINA	D/K; East European TV standard	AUTO
AMERICA	M; American TV standard	AUTO
CATV AMERICA	M; American TV standard	AUTO

Automatic Presetting

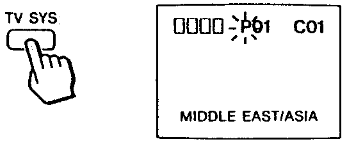
Up to 30 receivable channels from the lowest channel are automatically preset in the consecutive program positions.


1
2
PROGR/CH
Number buttons
3

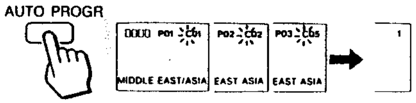
1 Press PRESET.


Blinks.
PRESET
0000 - P01 C01
CATV AMERICA

2 **Select the appropriate channel system referring to the "Channel system by country" on page 21.**

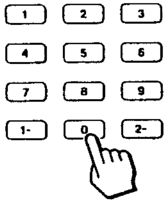

TV SYS
0000 - P01 C01
MIDDLE EAST/ASIA

3 Press AUTO PROGR.

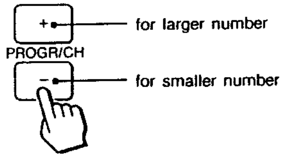

AUTO PROGR
0000 P01 C01
MIDDLE EAST/ASIA
P02 C02
EAST ASIA
P03 C05
EAST ASIA
1

All receivable channels are preset in numerical sequence beginning from program position 1. When no more channels can be found, the presetting mode is released and the program position 1 will be displayed on the screen.

If you want to begin presetting channels from the desired program position, select the program position with the number buttons or PROGR/CH +/– and then press AUTO PROGR.


1
2
3
4
5
6
7
8
9
1-
0
2-

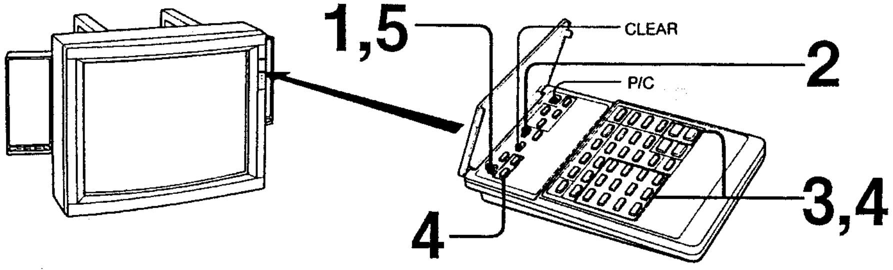
e.g. To select program position 2, press "2".
To select program position 12, press "1–" and then "2".
To select program position 22, press "2–" and then "2".


+
–
PROGR/CH
for larger number
for smaller number

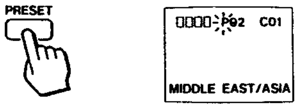
All receivable channels are preset in numerical sequence beginning from the selected program position.

Manual Presetting

To preset a receivable channel in a desired program position, use manual presetting.



1 **Press PRESET.**

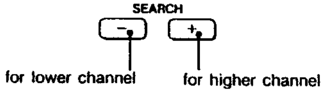


2 **Press TV SYS to select the appropriate channel system.**

3 **Select the desired program position with the number buttons or PROGR/CH +/– buttons.**

4 **Tune in the desired channel.** There are two ways:

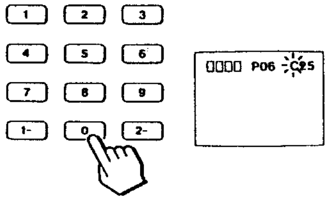
Press SEARCH +/– repeatedly until the desired channel appears.



Each time SEARCH +/– is pressed, the adjacent channel is automatically tuned in.

Press P/C to make the "C" indication blink. Then select the desired channel directly. (Refer to the "Receivable channel by channel system" on page 24.)

To select channel 5, press "0" and then "5".
To select channel 25, press "2" and then "5".



To scan the channel, press PROGR/CH + (for higher channel) or – (for lower channel).

Repeat steps 2 to 4 for other desired channels.

5 **Press PRESET.**

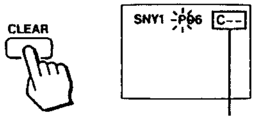
Skipping Program Positions

For skipping of undesired program positions when PROGR/CH +/– is pressed, proceed as follows.

1 Press PRESET.

2 Select the program position to be skipped with PROGR/CH +/– or the number buttons.

3 Press CLEAR.



Indicates that program 6 has been skipped.

4 Press PRESET.

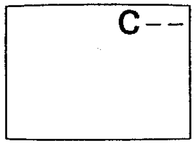
Repeat 1 to 4 for other positions to be skipped.

To restore a skipped program position, preset the desired channel in that position following "Manual presetting" on page 12.

Skipping Channels

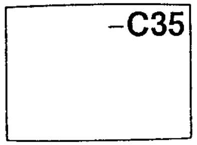
For skipping of undesired channels when PROGR/CH +/– is pressed, proceed as follows.

1 Press P/C so that the "C--" indication appears on the screen.



2 Select the channel number to be skipped with the number buttons or PROGR/CH +/–.

3 Press CLEAR.



A "–" appears, indicating that the channel has been skipped from channel scan memory.

Repeat steps 1 to 3 for other channels to be skipped.

To restore the skipped channel, make that channel appear on the screen and press PRESET.
A "+" appears on the left of the channel number, indicating that the channel has been added.

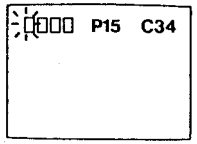
To Give a Program Position a Station Name

You can give a station name to each program position to identify the received channel for display on the screen together with the program position number, using up to four characters.
Example: To name program position 15 as "SNY1"

1 **Press PRESET.**

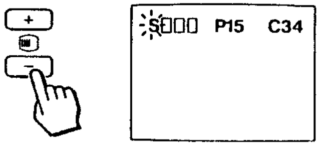
2 **Select the program position to be named with the number buttons or PROGR/CH +/–.**

3 **Press ⊞ .**



A desired character can be set to the blinking column.
Each time ⊞ is pressed, the next column blinks.
The fifth press makes the "P" indication blink and the unit returns to channel presetting mode.

4 **Select a desired character.**

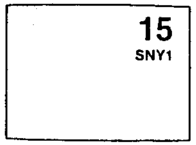


Each time ⊞ + is pressed, the character changes in the following sequence.
0 → 1 → 2 → ...9 → A → B → ... → Z
■(blank) ←

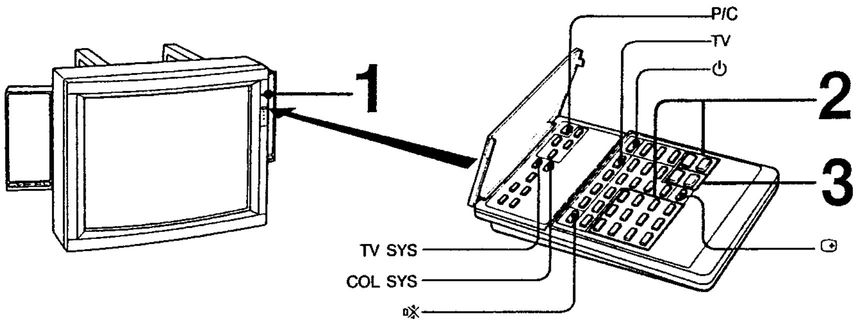
Each time – is pressed, the character changes in the reverse sequence.

5 **Repeat steps 3 and 4 to set the desired station name.**

6 **Press PRESET.**

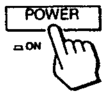


1-3. WATCHING TV PROGRAMS



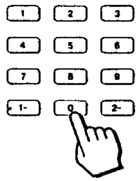
Operation

1 **Turn on the TV.**

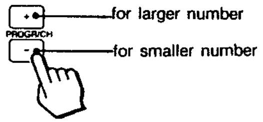


If the "VIDEO 1", "VIDEO 2" or "VIDEO 3" indication is displayed on the screen, press the TV button.

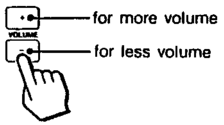
2 **Select the desired program position with the number buttons or PROGR/CH +/–. (Program tuning mode)**



e.g. To select program 6, press 6.
To select program 16, press "1–" and then "6".
To select program 26, press "2–" and then "6".

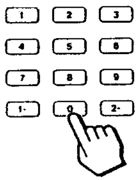


3 **Adjust the volume.**

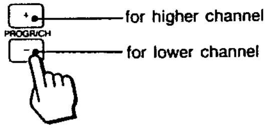


Note on the TV system and color system (only for program tuning mode)
If there is no sound or the sound is distorted, set TV SYS to the TV system which produces clear sound.
If a color program does not appear in color, set COL SYS to the color system which produces normal color.

To select directly the desired channel which is not preset (Channel tuning mode)
Select the appropriate channel system with the TV SYS button and then select the channel. (Refer to the "Channel allocation" on page ⓲.)

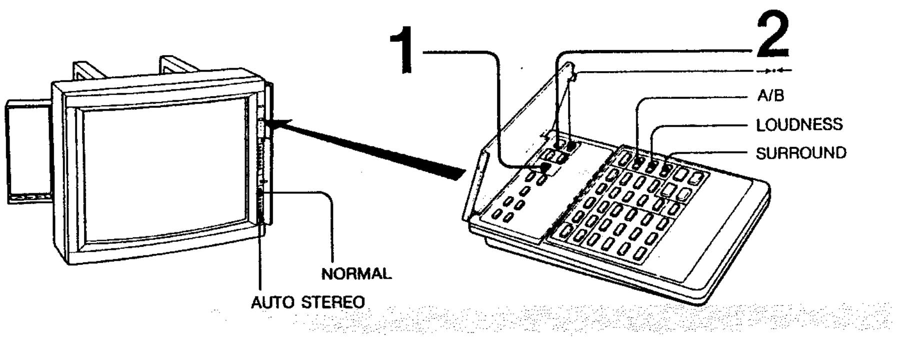


e.g. To select channel 5, press "0" and then "5".
To select channel 25, press "2" and then "5".



To change the tuning mode
Press P/C. The "C--" (Channel tuning mode) or "P--" (Program tuning mode) indication will appear on the screen. Then select the desired channel or program position number as mentioned above. If the numbers are not entered for 10 seconds, the mode will change.

To turn off the TV for a short period of time	Press ⏻. The unit enters the standby mode. The ⏻ lamp lights.
To turn on the TV from the standby mode	Press TV or the desired number button(s).
To cut off the power completely	Press POWER on the unit.
To mute the sound	Press 🔇. The 🔇 indication appears on the screen. Press again or press VOLUME + to restore the sound.
To keep the on-screen indications displayed on the screen.	Press ⊕. Press again to make them disappear.



Picture and Sound Adjustments

The following items can be adjusted by observing the segmented bar display on the screen.

1 Press ⊟ repeatedly until the item you desire to adjust appears on the screen.

2 Press ⊟ +/– to adjust the level of the selected item.

Each time ⊟ is pressed, the item changes in the following order.

Item	– button	+ button
◑ (picture)	for less picture contrast	for more picture contrast
◕ (color)	for less color intensity	for more color intensity.
☼ (brightness)	for less brightness	for more brightness
(hue)	Skin tones become purplish.	Skin tones become greenish.
◫ (sharpness)	for less sharpness	for more sharpness
𝄢 (bass)	to decrease bass response	to increase bass response
𝄞 (treble)	to decrease treble response	to increase treble response
⋈ (balance)	to emphasize the left speaker's volume	to emphasize the right speaker's volume

To reset the adjustment levels to the factory-set levels
Press →•← or NORMAL on the TV.

To emphasize high and low tones
Press LOUDNESS. The ⊔ indication is displayed on the screen. Press again to restore the normal sound. The indication changes to ⊔̸ .

Enjoying Surround and Space Sound Effects

To activate surround effect
Press SURROUND until the ⊜ ı·ı·ı·ı indication appears on the screen. You can obtain sound reproduction with the atmosphere of a movie theater or concert hall.

To activate space sound effects
Press SURROUND until the ⊜ ı·ı indication appears on the screen. You can obtain sound reproduction with special acoustic effects.

To restore the normal sound
Press SURROUND until the ⊜ ı·ı indication appears on the screen.

Receiving a West German Stereo Program

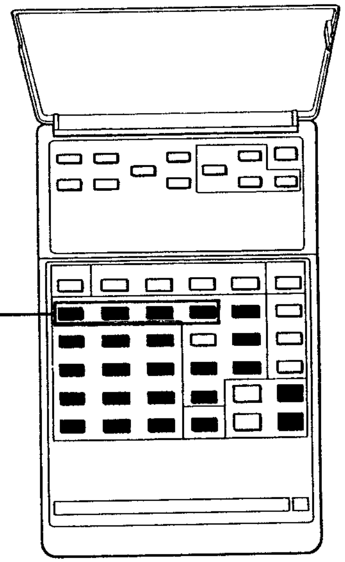
Normally set the AUTO STEREO switch on the TV to ON to receive a stereo broadcast. The A and B mode lamps light. If noise makes it hard to receive a very weak TV stereo program, set the switch to OFF so that the lamps go out. The sound becomes monaural but noise will be reduced.

Listening to a West German Bilingual Program

Either A or B mode lamp lights during a bilingual broadcast. Press A/B to select the desired sound of the bilingual program. Each time this button is pressed, A or B is selected alternately.
(In video input mode, A lamp lights for a left channel, B lamp for a right channel or A and B lamps for both channels.)

1-4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander.
The buttons for teletext operation are indicated in green.



Operation

1 Select the TV channel for the desired teletext service. When the signal is weak, teletext errors may often occur.

2 Press ⊜/⊘ (TEXT/MIX) to display the teletext service.
Once ⊜/⊘ has been pressed, the TV channel cannot be changed.

3 Key in the three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the Remote Commander.
The teletext service can be displayed directly from the standby mode by pressing ⊜/⊘.

To receive the teletext service of a different TV channel

1 Press TV to return to the TV mode.

2 Select the desired TV channel.

3 Press ⊜/⊘.

To display the index page
Press ▣ (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page
Press ▣ (PAGE+) or ▣ (PAGE–).

To superimpose the teletext display on the picture
Press ⊜ / ◩ twice from TV mode.
Press ⊜ / ◩ again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed
Press ▣ (TEXT CL). This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated/changed
Press ▣ (HOLD). The HOLD symbol appears at the top of the screen.

To resume normal teletext reception, press ⊜/◩.

To enlarge the teletext display
Press ▣ once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.

To reveal concealed information such as answers to a quiz
Press ▣ (REVEAL).
Press again to conceal the answers.

To adjust the contrast of the teletext display
When in teletext mode, adjust by using the + or – buttons adjacent to the ▣ button.

To watch the TV programme while waiting for a requested page to be displayed

1 Request the new page.

2 Press ▣ to watch the TV programme. The requested page number and other data appears at the top of the screen while the page number is being searched for. When the requested page has been captured, the page number remains on the screen and the other data disappears.

P101 (TV picture)

To view this page, press ⊜/◩.

To have a requested page displayed at a pre-determined time.

1 Request a time coded page (e.g. alarm page).

2 Press ▣ (TP ON).

"T****" will appear at the bottom of the screen.

T****

3 Enter your request time with the number buttons, using four digits. For example, 0730.

T0730

To watch the TV programme until the requested time, press ▣. At the requested time, the page number will be displayed at the bottom of the screen.
To view this page, press ⊜/◩.
To cancel the request, first ensure that the teletext page is displayed, then press ▣ (TP OFF).

FASTEXT Operation

FASTEXT Teletext enables you to access pages quickly and conveniently with one key operation.

When a FASTEXT page is broadcast a colour coded menu will appear at the bottom of the screen. **Each coloured prompt relates to the coloured keys on the Remote Commander.** Pressing one of these will select the page described by the prompt.
Selection may also be made by entering the three digit page number in the normal way.

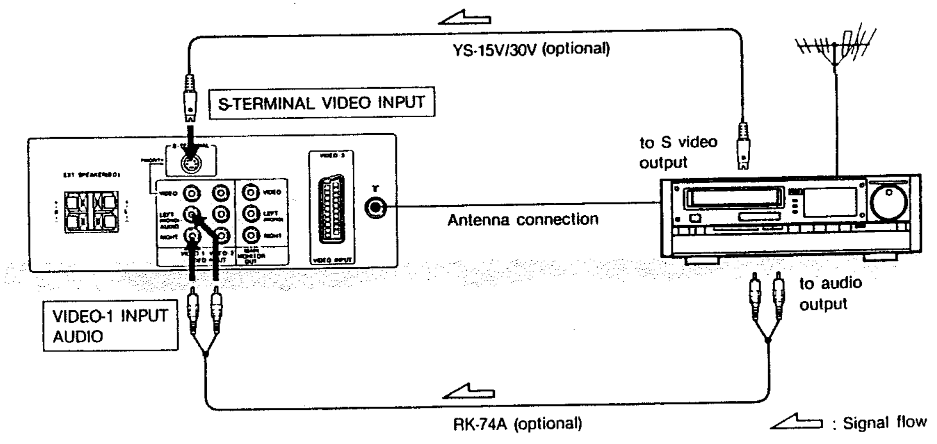
Correct FASTEXT operation relies on the necesary signals being transmitted by the Broadcasting Authorities. It is possible that some Broadcasters will not support this transmission.

If FASTEXT is not transmitted, the decoder will operate as outlined above.

1-5. CONNECTING OTHER EQUIPMENT

Connecting a VTR

Connecting a VTR equipped with the S video output connector



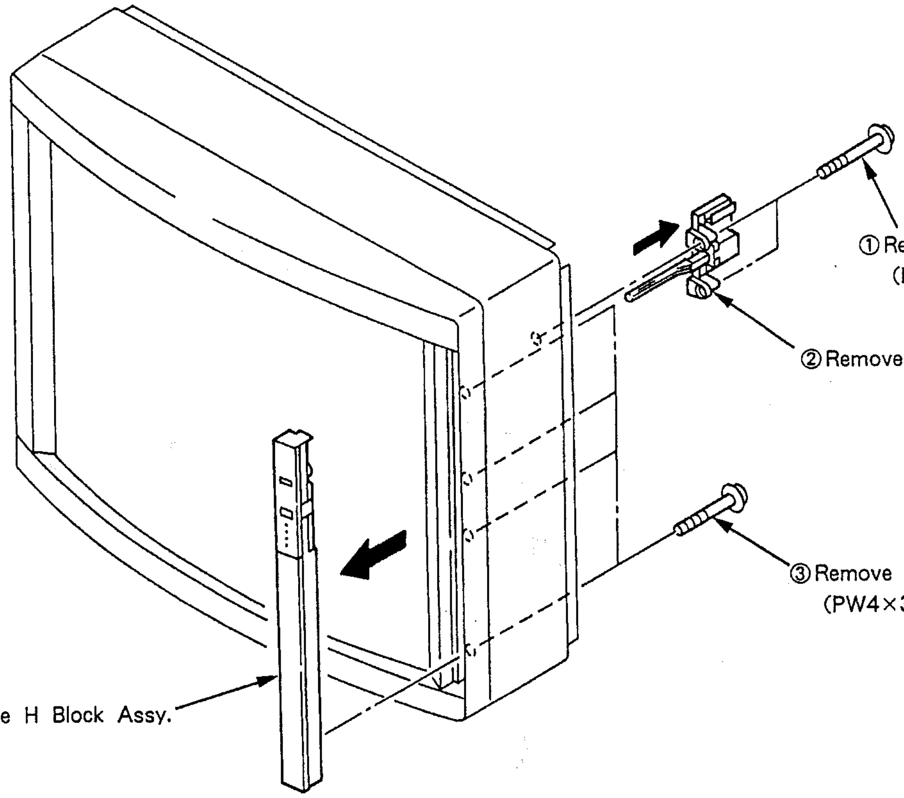
Notes on S-TERMINAL VIDEO INPUT

- When the S-TERMINAL VIDEO INPUT is connected, the picture from the video input jack of VIDEO-1 INPUT is not displayed.
- To view the picture from S-TERMINAL VIDEO INPUT, press VIDEO 1.

About S-TERMINAL VIDEO INPUT
Video input and output signals may be separated into Y (luminance or brightness) and C (chroma or color) signals. Usually these two signals are combined in a VTR and sent as one signal to a TV. Separation of the Y and C signals prevents them from interferring with one another, thereby improving picture (especially in color) quality.
This unit is equipped with an S-TERMINAL VIDEO INPUT through which these separated signals can be input directly.

SECTION 2
DISASSEMBLY

2–1. H BLOCK ASSY REMOVAL



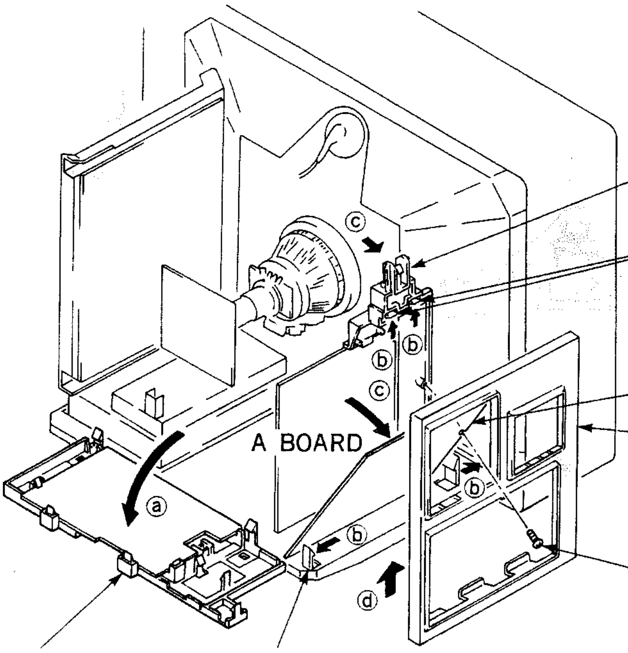
① Remove two screws. (BV3×25)

② Remove F2 Block Assy.

③ Remove special screw. (PW4×30)

④ Remove H Block Assy.

2–2. A BOARD REMOVAL



③ Remove the clip in the direction of arrow ⓒ

⑥ Remove the two clips in the direction of arrow ⓑ

⑦ Open B board

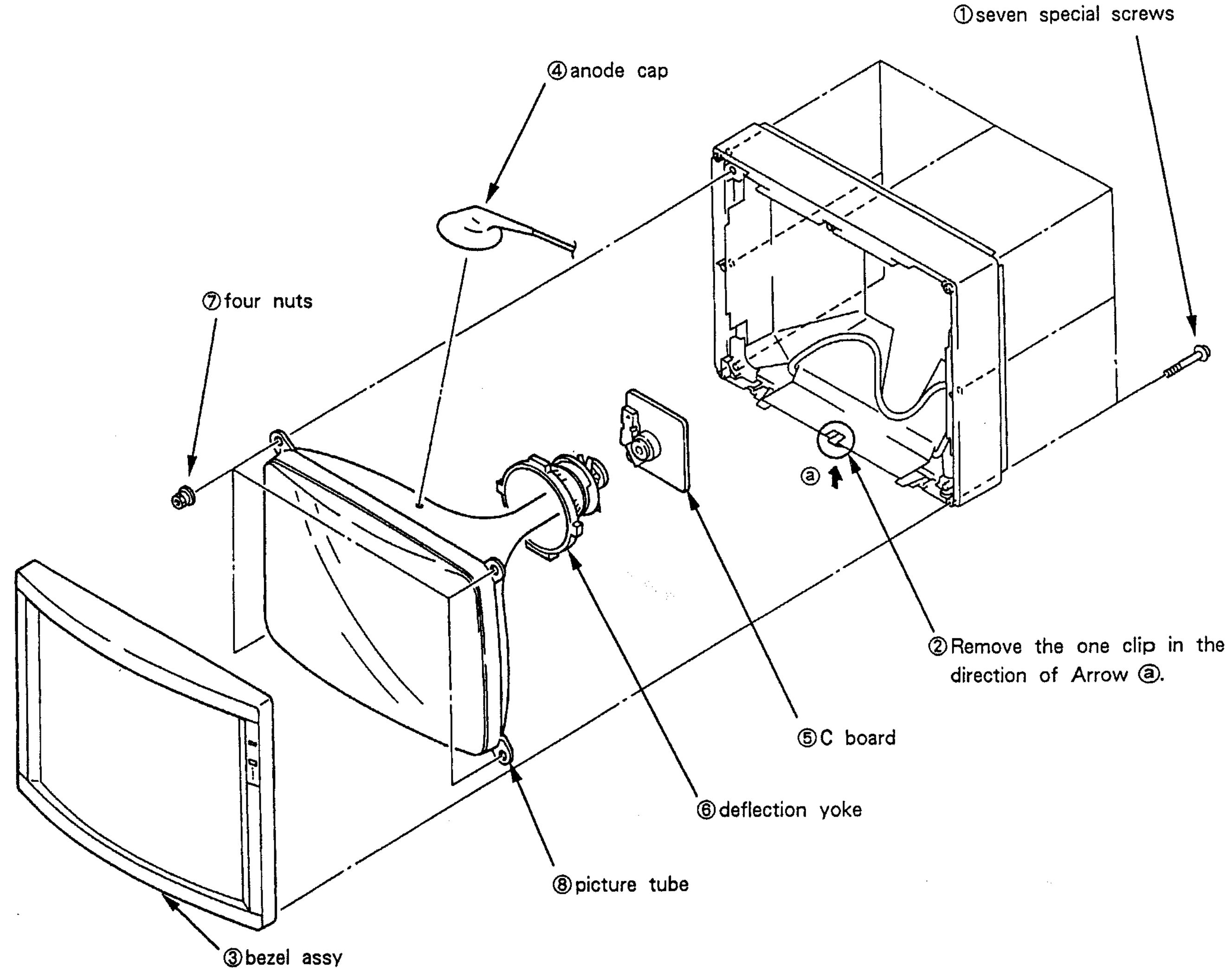
④ Remove the V Block assembly in the direction of arrow ⓓ

⑤ Remove one screw. (BVTP3×12)

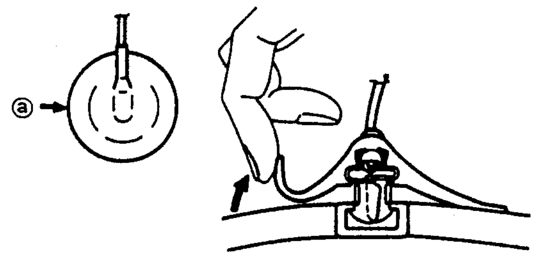
① J1 Block Assy
Open in the Arrow ⓐ direction.

② Remove the two clips in the direction of arrow ⓑ

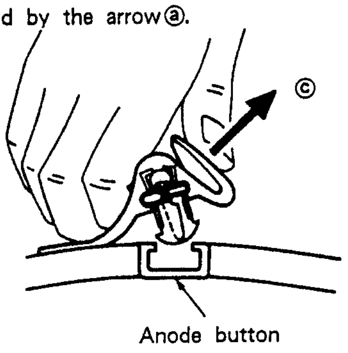
2-3. PICTURE TUBE REMOVAL

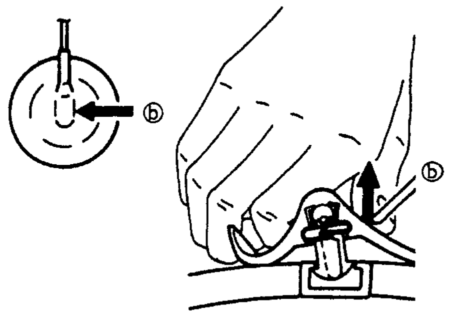

①seven special screws
④anode cap
⑦four nuts
ⓐ
②Remove the one clip in the direction of Arrow ⓐ.
⑤C board
⑥deflection yoke
⑧picture tube
③bezel assy

● Removing Procedures



① Turn up one side of the rubber cap in the direction indicated by the arrowⓐ.


ⓒ
Anode button



② Using a thumb,pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

③ When one side of the rubber cap is separated from the anode button,the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrowⓒ.

SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

◑CONTRAST control ············ 80% (or Normal by Commander)
☼BRIGHTNESS control ·········· 50%

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
   CONTRAST } normal
   BRIGHTNESS }
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3 - 1 — 3 - 3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 3-1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magnet. (Fig. 3 - 4)

Fig. 3-1

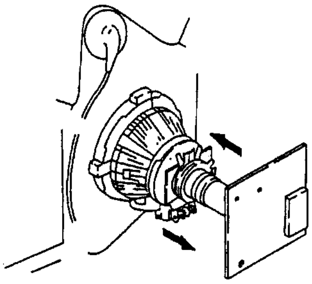


Fig. 3-2

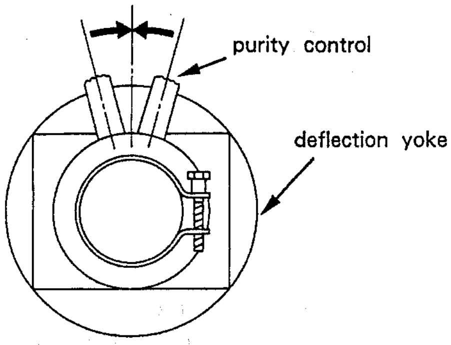

purity control
deflection yoke

Fig. 3-3

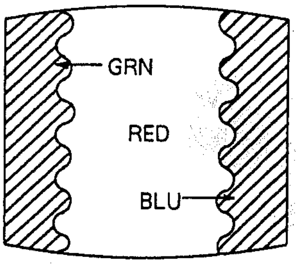
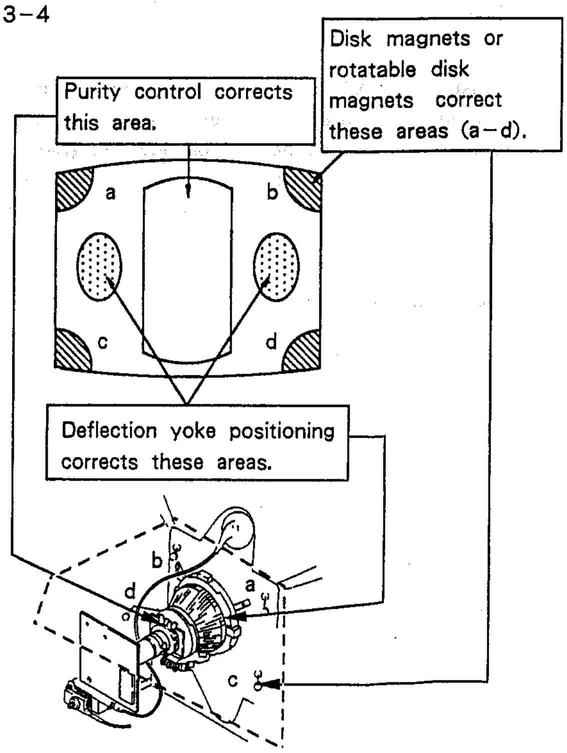


Fig. 3-4

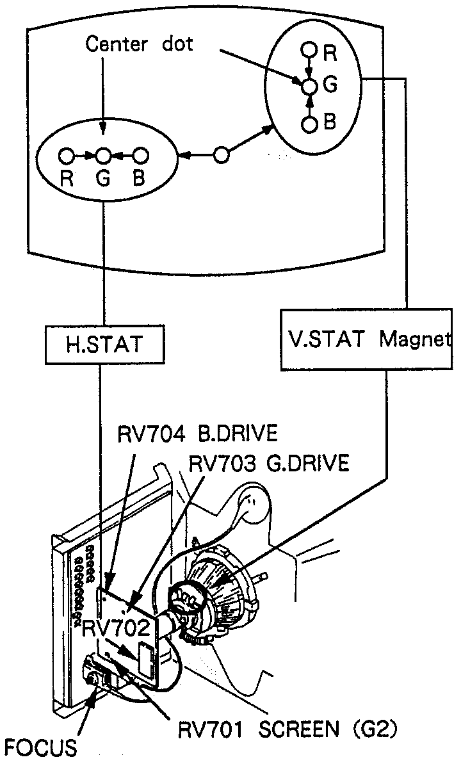

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a-d).
a
b
c
d
Deflection yoke positioning corrects these areas.
b
a
d
c

3–2. CONVERGENCE

Preparation :

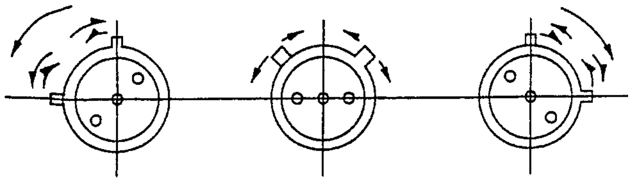
- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

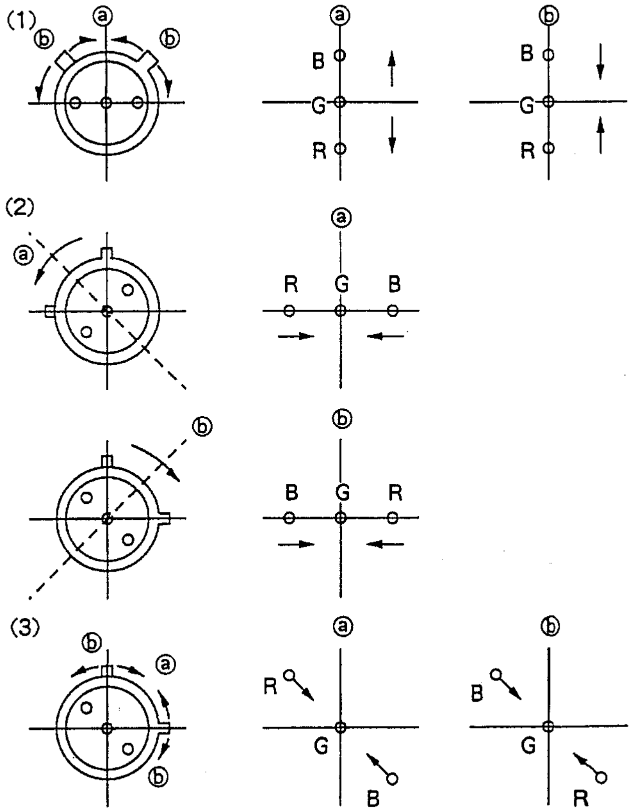

Center dot
R
G
B
R G B
H.STAT
V.STAT Magnet
RV704 B.DRIVE
RV703 G.DRIVE
RV702
RV701 SCREEN (G2)
FOCUS

1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below.
   (In this case, H. STAT VR and V. STAT magnet effect each other.)

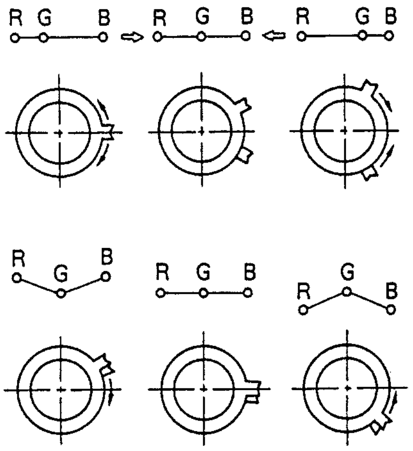
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

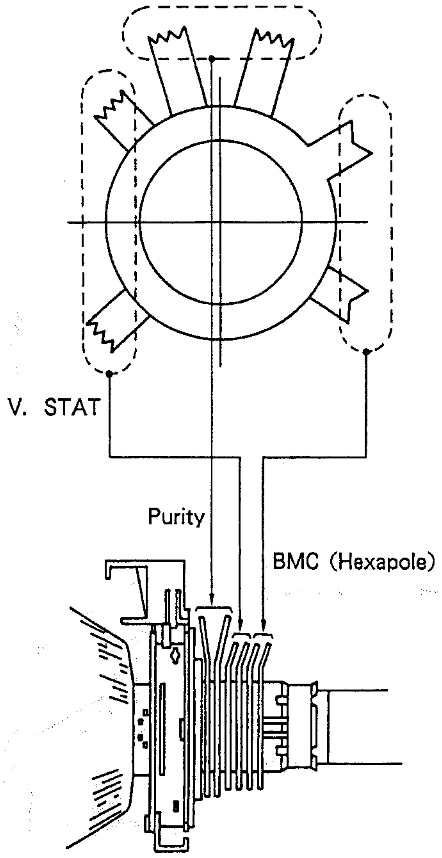


4. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.


(1)
ⓑ
ⓐ
ⓑ
ⓐ
B
G
R
ⓑ
B
G
R
(2)
ⓐ
ⓐ
R G B
ⓑ
ⓑ
B G R
(3)
ⓑ
ⓐ
ⓑ
ⓐ
R
G
B
ⓑ
B
G
R

- Operation of BMC (Hexapole) Magnet


R G B
R G B
R G B
R G B
R G B
R G B


V. STAT
Purity
BMC (Hexapole)

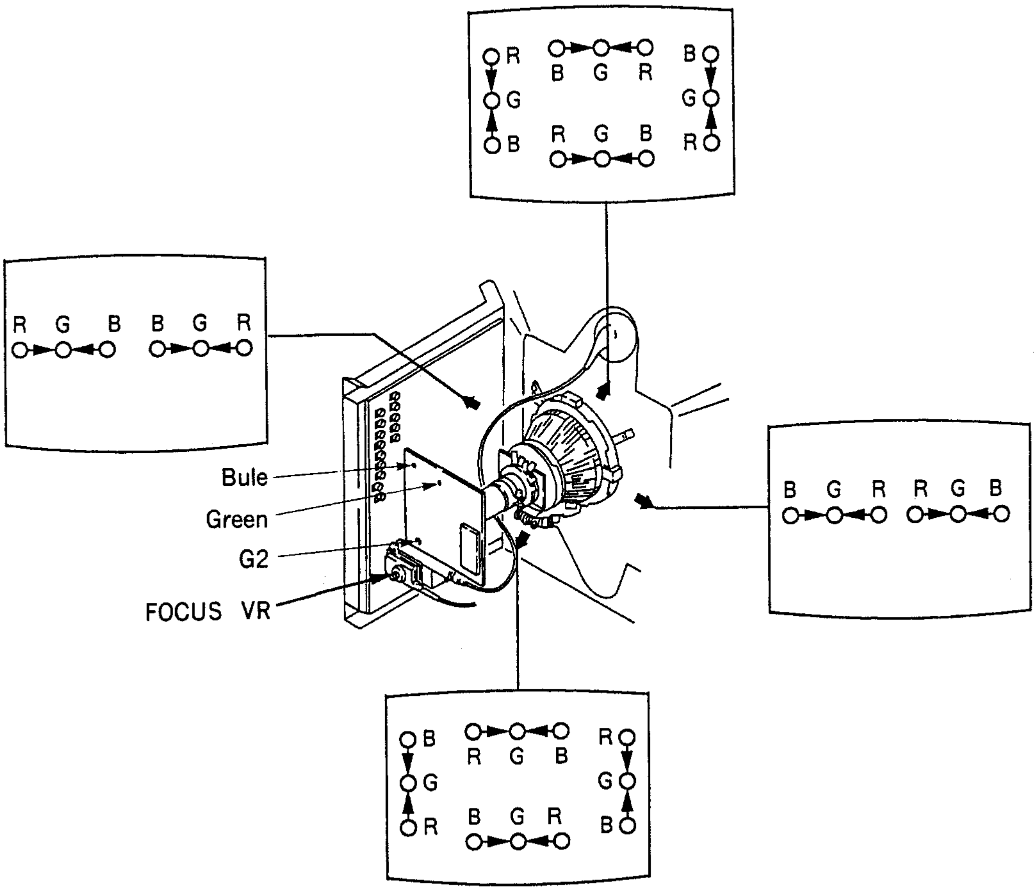
- The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.
  Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

(2) Dynamic Convergence Adjustment

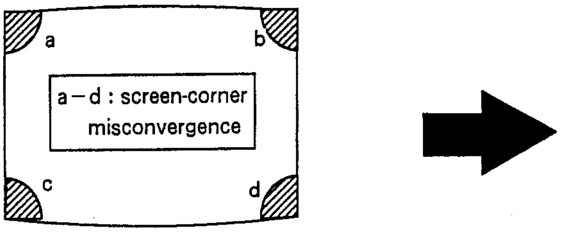
Preparation :

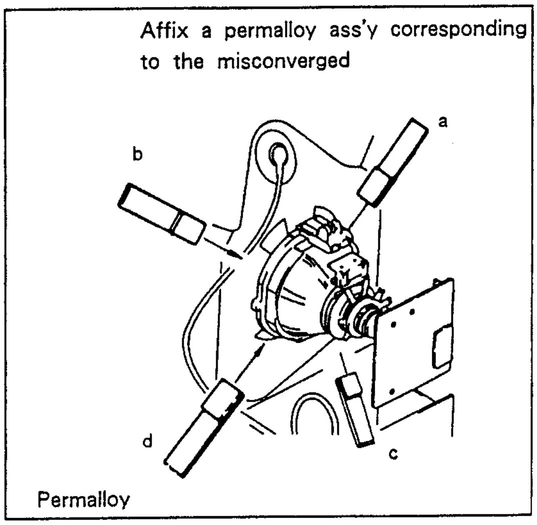
- Before starting, perform Horizontal and Vertical Static Convergence Adjustment..

1. Slightly 'loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.


R G B
B G R
R G B
B G R
R G B B G R
B G R R G B
B G R
R G B
B G R
R G B
Bule
Green
G2
FOCUS VR

(3) Screen-corner Converence


a
b
c
d
a−d : screen-corner misconvergence


Affix a permalloy ass'y corresponding to the misconverged

a
b
c
d
Permalloy

3−3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

3–4. WHITE BALANCE

〔Screen (G2) Setting〕

1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture; adjust the G2 volume (RV701) immediately before the fly-back line disappears.

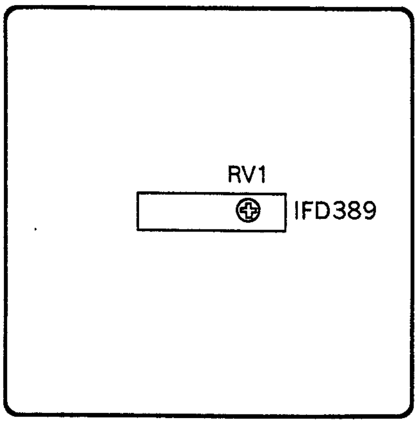
〔White Balance Adjustment〕

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENT

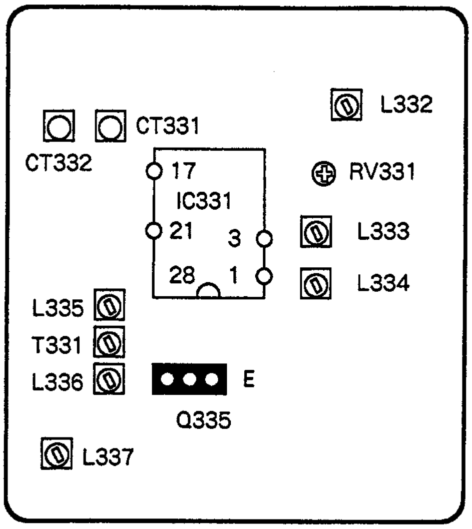


(Conponent side)

TUNER AGC Adjustment

1. Tune in an off-air signal.
2. Adjust AGC VR on IFD389 so that snow-noise and cross-modulation just disappear from the picture.

4-2. B BOARD ADJUSTMENT



(Conponent side)

REF OSC NTSC 3.58MHz (CT331)

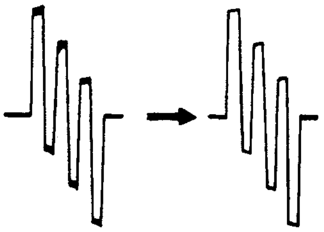
1. Input a NTSC 3.58MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT331 to obtain color synchronization.
4. Remove the jumper wire from IC331.

REF OSC Adjustment NTSC 4.43MHz (CT332)

1. Input a NTSC 4.43MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT332 to obtain color synchronization.
4. Remove the jumper wire from IC331.

1H DELAY LINE Adjustment (L332, RV331)

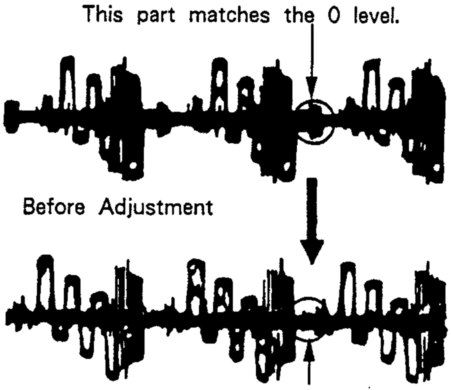
1. Input a PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ① (R−Y) of IC331 and observe the waveform of the H block on the oscilloscope.
3. Adjust L332 to minimize the double waveform outline.



Before Adjustment After Adjustment

4. Input a TEST COLOR BAR pattern.
5. Rotate the RV331 control and adjust till the ANT PAL of the waveform part matches the 0 level.

This part matches the 0 level.



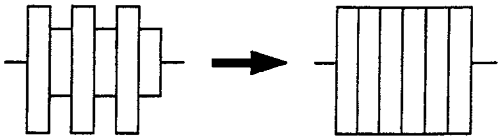
Before Adjustment

After Adjustment 0 level

6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

SECAM ID Adjustment (L335)

1. Input a SECAM COLOR BAR pattern.
2. Connect a Digital Multimeter at pin ㉑ of IC331.
3. Adjust L335 so that the indicator goes up to the maximum.



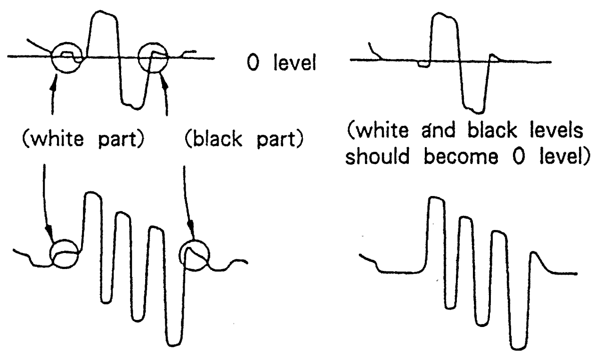
Before Adjustment After Adjustment

BELL FILTER Adjustment (T331)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q335 emitter.
3. Adjust T331 so that the waveform becomes flat.

SECAM DISCRI Adjustment (L333, L334)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC331.
3. Adjust L333 so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC331.
5. Adjust L334 so that white and black part of the waveform of pin ③ becomes 0 level.


0 level
(white part)
(black part)
(white and black levels should become 0 level)

(Before Adjustment)
(After Adjustment)

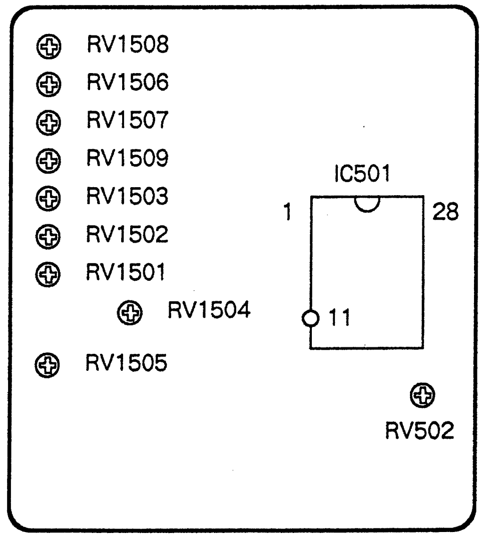
4.25 TRAP Adjustment (L336)

1. Input SECAM COLOR BAR pattern.
2. Adjust L336 so that noise just disappear from the picture.

4.43 TRAP Adjustment (L337)

1. Input PAL COLOR BAR pattern.
2. Adjust L337 so that noise just disappear from the picture.

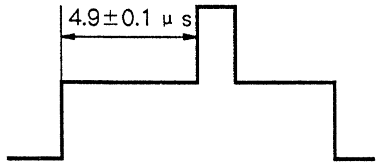
4–3. D BOARD ADJUSTMENT


RV1508
RV1506
RV1507
RV1509
RV1503
RV1502
RV1501
RV1504
RV1505
IC501
1
28
11
RV502

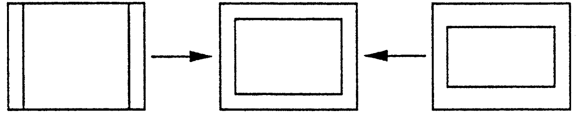
(Conponent side)

H. PHASE Adjustment (RV502)

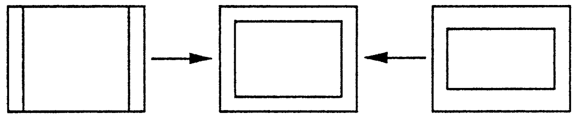
1. Input a PAL COLOR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical center position.
4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to 4.9±0.1 μs.



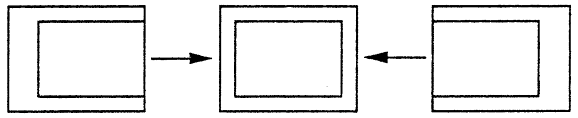
RV1504
H.SIZE (HORIZONTAL SIZE)



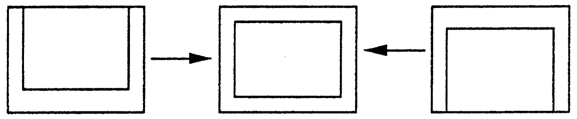
RV1507
V.SIZE (VERTICAL SIZE)



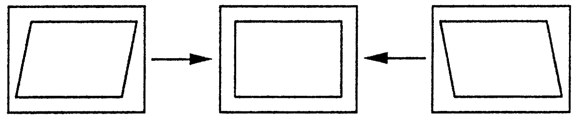
RV1508
H.CENT (HORIZONTAL CENTER)



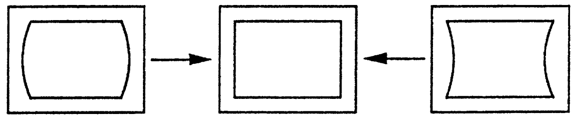
RV1506
V.CENT (VERTICAL CENTER)



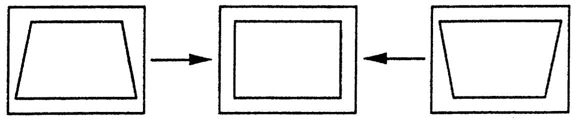
RV1509
V.ANGLE (VERTICAL ANGLE)



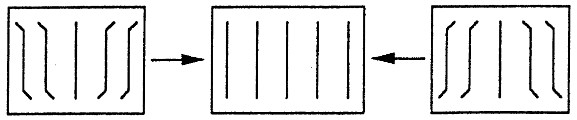
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



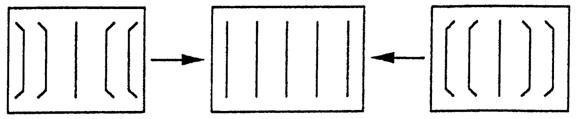
RV1502
PIN PHASE (PINCUSHION PHASE)



RV1501
PIN COR (PINCUSHION CORRECT)

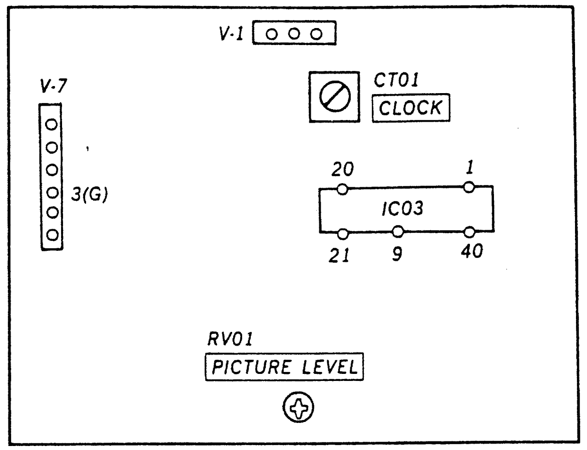


RV1505
CORNER COR (CORNER CORRECT)



4-3. V BOARD ADJUSTMENTS

V Board


V-1
V-7
3(G)
CT01
CLOCK
20
1
IC03
21
9
40
RV01
PICTURE LEVEL

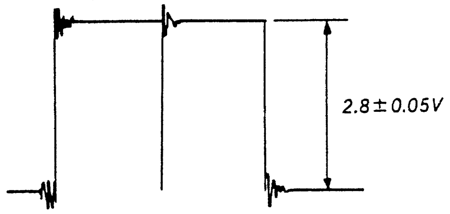
— component side —

CLOCK Adiustment (CT01)

1. *Disconnect V-1 connector.*
2. *Connect freguenuy counter to pin ⑨ of IC03.*
3. *Adjust CT01 to 6.0MHz ±50Hz.*
4. *connect V-1 connector.*

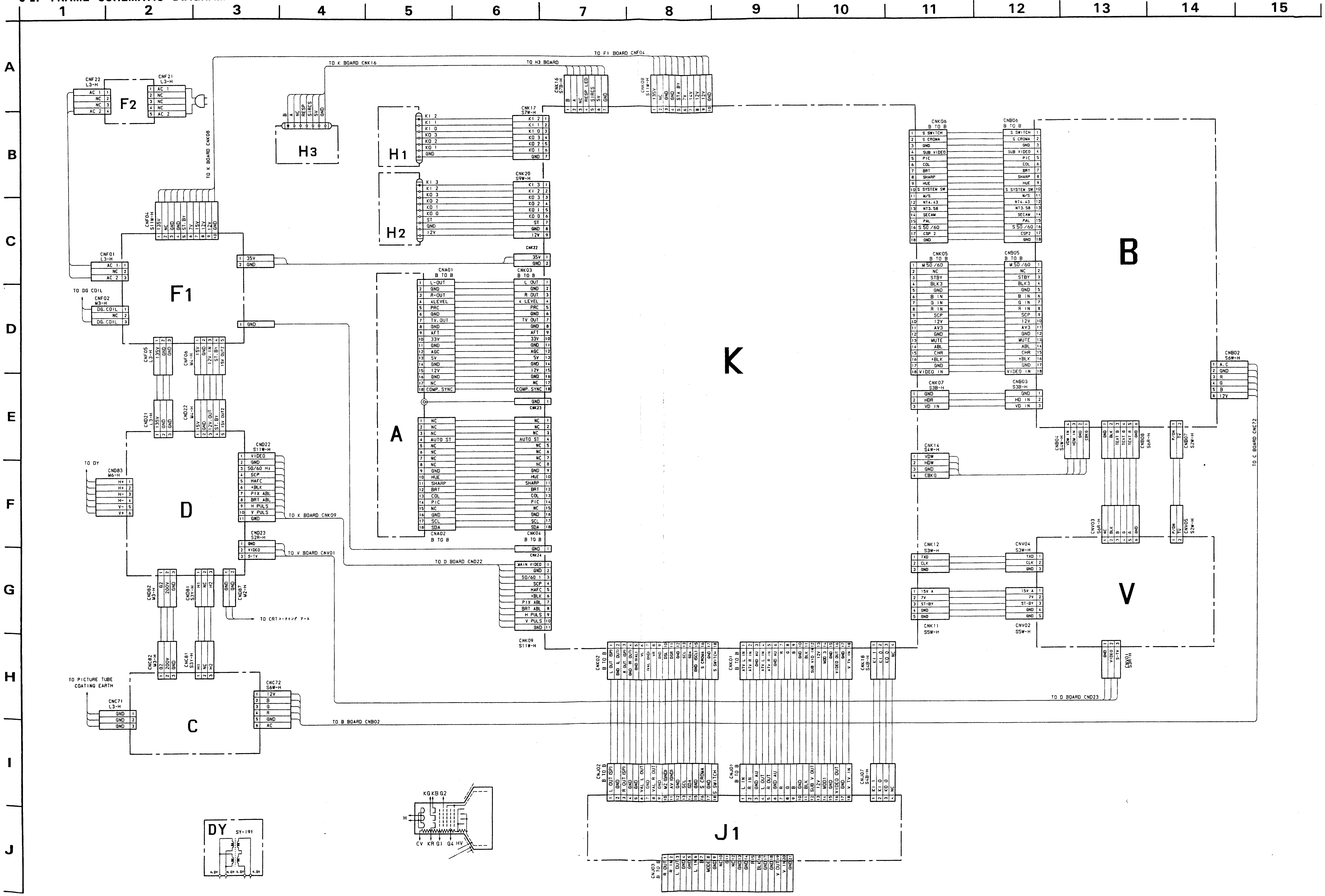
PICTURE LEVEL Adiustment (RV01)

1. *Connect oscilloscope to G output of V-7 connector.*
2. *Adjust RV01 so that G output level (black level to white peak) is 2.8±0.05V.*

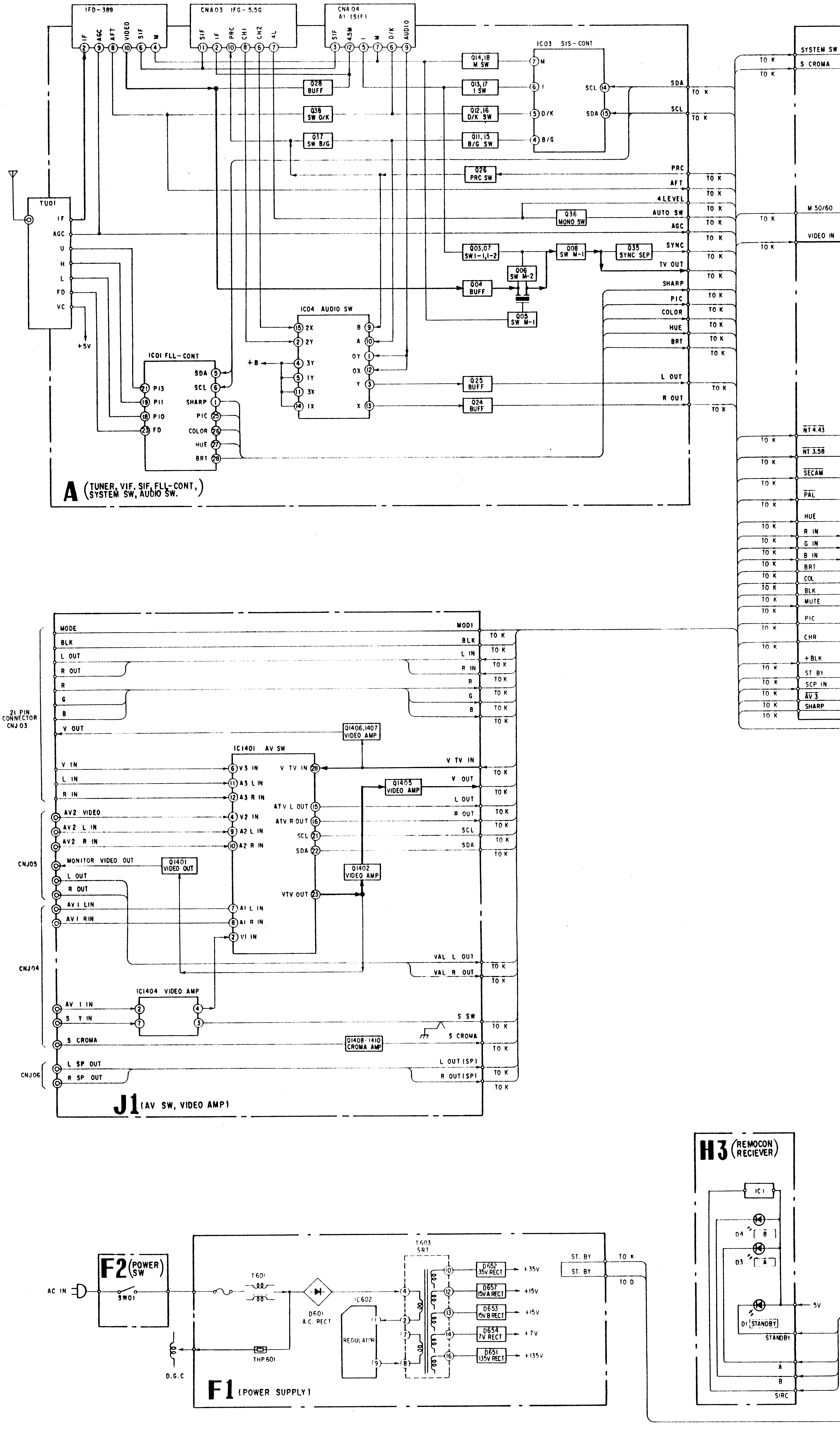


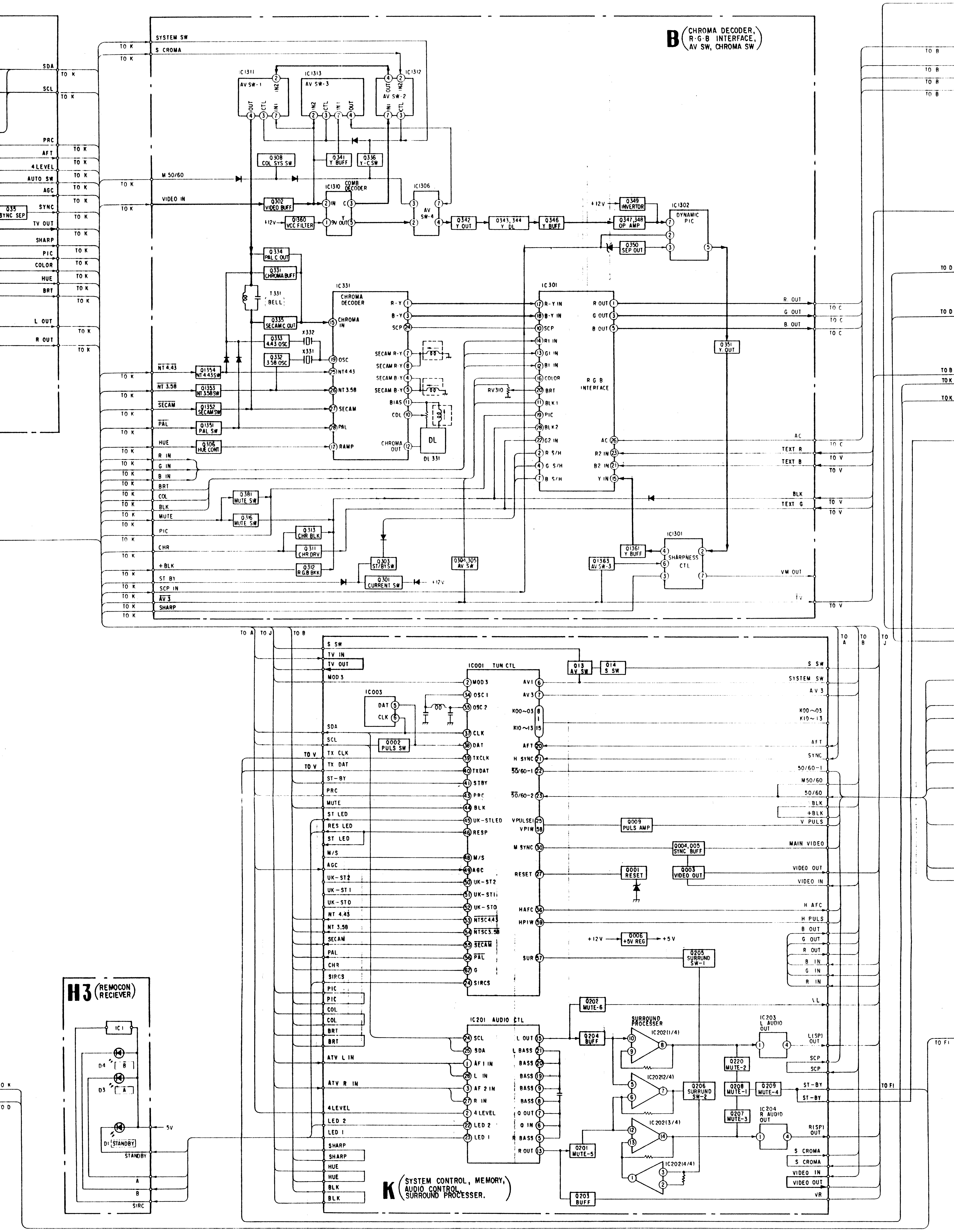
SECTION 5 DIAGRAM

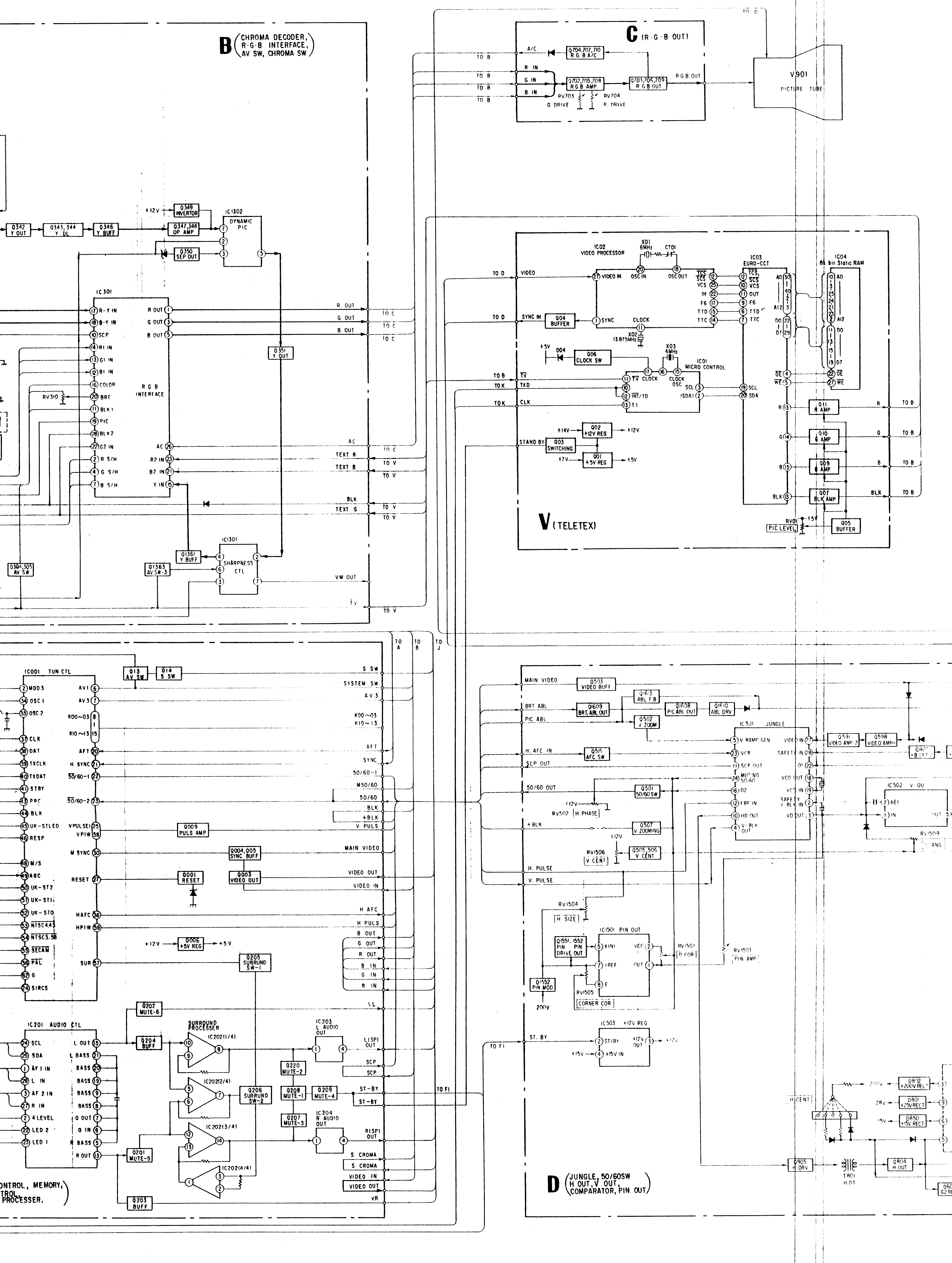
5-1. FRAME SCHEMATIC DIAGRAM

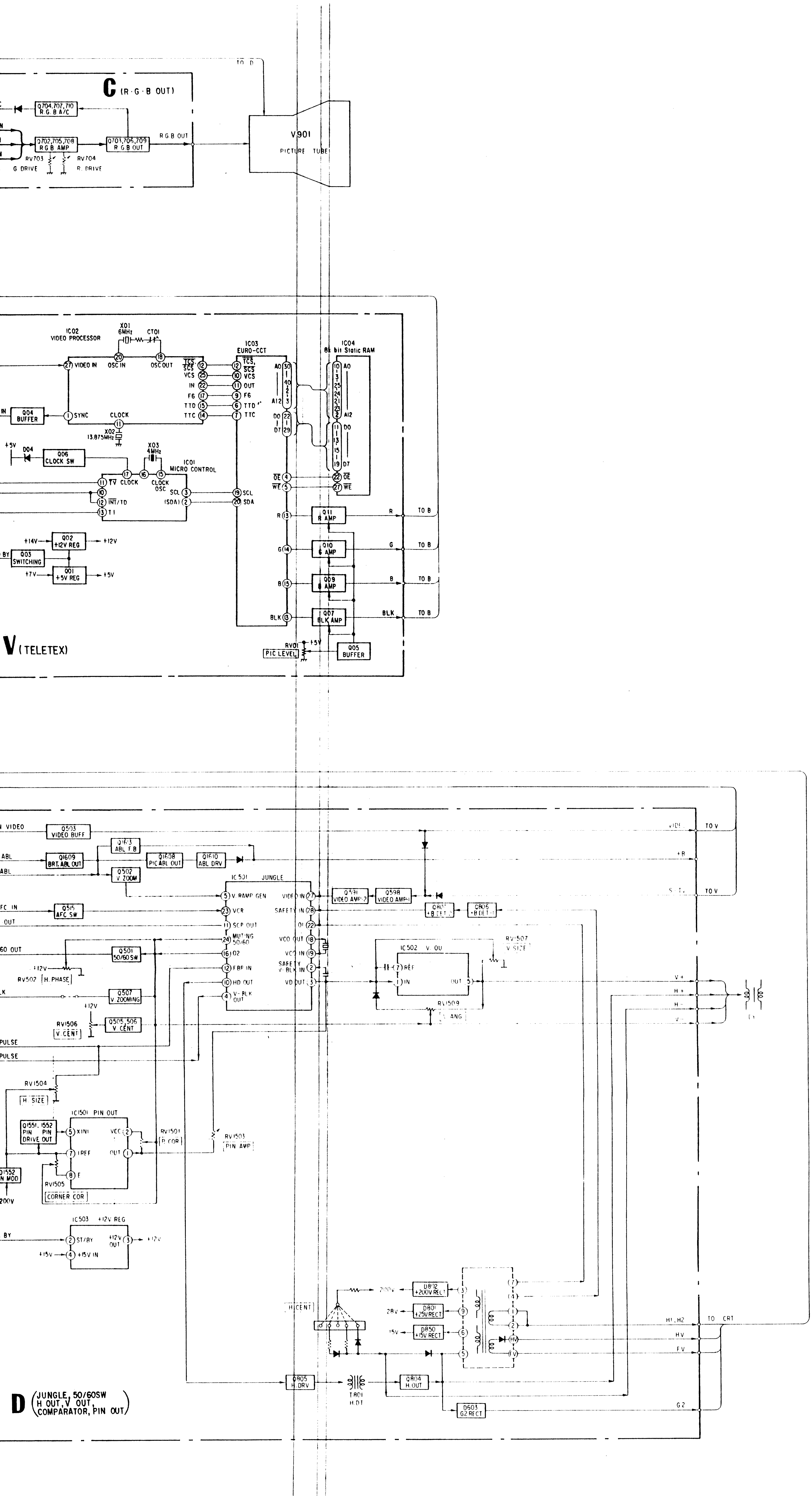

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J
F2
F1
H3
H1
H2
A
K
B
V
D
C
J1
DY
SY-191
CNF22
CNF21
CNF04
CNF01
CNF02
CNF05
CNF06
CND21
CND22
CND83
CND23
CND82
CND81
CND87
CNC82
CNC81
CNC71
CNC72
CNK16
CNK08
CNK17
CNK20
CNK22
CNA01
CNK03
CNA02
CNK04
CNK24
CNK09
CNK06
CNB06
CNK05
CNB05
CNK07
CNB03
CNB02
CNB04
CNB08
CNB07
CNK14
CNV03
CNV05
CNK12
CNV04
CNK11
CNV02
CNV01
CNK02
CNK01
CNK18
CNJ02
CNJ01
CNJ07
CNJ03
TO F1 BOARD CNF04
TO K BOARD CNK16
TO H3 BOARD
TO K BOARD CNK08
TO DG COIL
TO DY
TO K BOARD CNK09
TO V BOARD CNV01
TO D BOARD CND22
TO CRT コーティング アース
TO PICTURE TUBE COATING EARTH
TO B BOARD CNB02
TO D BOARD CND23
TO C BOARD CNC72
B TO B
KG KB G2
CV KR G1 G4 HV

5-2. BLOCK DIAGRAM

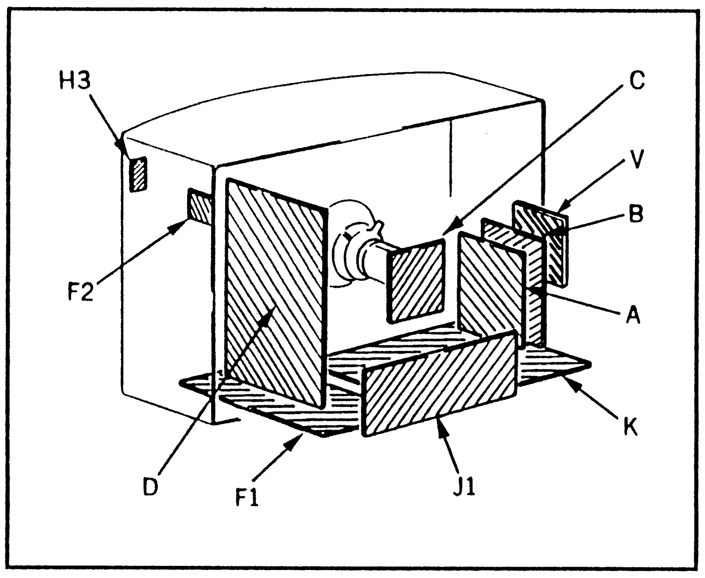

A (TUNER, VIF, SIF, FLL-CONT, SYSTEM SW, AUDIO SW.)
IFD-389
CNA03 IFG-5.5G
CNA04 A1 (SIF)
TU01
IC03 SYS-CONT
IC04 AUDIO SW
IC01 FLL-CONT
Q14,18 M SW
Q13,17 I SW
Q12,16 D/K SW
Q11,15 B/G SW
Q28 BUFF
Q38 SW D/K
Q37 SW B/G
Q26 PRC SW
Q36 MONO SW
Q03,07 SW1-1,1-2
Q08 SW M-1
Q35 SYNC SEP
Q06 SW M-2
Q04 BUFF
Q05 SW M-1
Q25 BUFF
Q24 BUFF
SDA
SCL
PRC
AFT
4 LEVEL
AUTO SW
AGC
SYNC
TV OUT
SHARP
PIC
COLOR
HUE
BRT
L OUT
R OUT
TO K
SYSTEM SW
S CROMA
M 50/60
VIDEO IN
NT 4.43
NT 3.58
SECAM
PAL
R IN
G IN
B IN
COL
BLK
MUTE
CHR
+BLK
ST BY
SCP IN
AV 3
+5V
+B
J1 (AV SW, VIDEO AMP)
21 PIN CONNECTOR CNJ 03
CNJ05
CNJ04
CNJ06
IC1401 AV SW
IC1404 VIDEO AMP
Q1406,1407 VIDEO AMP
Q1405 VIDEO AMP
Q1401 VIDEO OUT
Q1402 VIDEO AMP
Q1408·1410 CROMA AMP
MODE
MODI
L IN
R IN
V OUT
V IN
V TV IN
AV2 VIDEO
AV2 L IN
AV2 R IN
MONITOR VIDEO OUT
AV1 LIN
AV1 RIN
AV 1 IN
S Y IN
S CROMA
S SW
L SP OUT
R SP OUT
L OUT (SP)
R OUT (SP)
VAL L OUT
VAL R OUT
VTV OUT
ATV L OUT
ATV R OUT
H3 (REMOCON RECIEVER)
IC1
D4 B
D3 A
D1 STANDBY
STANDBY
SIRC
F2 (POWER SW)
SW01
AC IN
D.G.C
F1 (POWER SUPPLY)
T601
D601 A.C. RECT
IC602 REGULATOR
THP601
T603 SRT
D652 35V RECT
D657 15V A RECT
D653 15V B RECT
D654 7V RECT
D651 135V RECT
+35V
+15V
+7V
+135V
ST. BY
TO D


B (CHROMA DECODER, R·G·B INTERFACE, AV SW, CHROMA SW)
IC1311 AV SW-1
IC1313 AV SW-3
IC1312 AV SW-2
IC1310 COMB DECODER
IC1306 AV SW-4
IC1302 DYNAMIC PIC
IC331 CHROMA DECODER
IC301 R G B INTERFACE
IC1301 SHARPNESS CTL
DL 331
T331 BELL
Q308 COL SYS SW
Q341 Y BUFF
Q336 Y-C SW
Q302 VIDEO BUFF
Q1360 VCC FILTER
Q342 Y OUT
Q343, 344 Y DL
Q346 Y BUFF
Q349 INVERTOR
Q347,348 OP AMP
Q350 SEP OUT
Q334 PAL C OUT
Q331 CHROMA BUFF
Q335 SECAM C OUT
Q333 4.43 OSC
Q332 3.58 OSC
Q1354 NT 4.43 SW
Q1353 NT 3.58 SW
Q1352 SECAM SW
Q1351 PAL SW
Q306 HUE CONT
Q381 MUTE SW
Q316 MUTE SW
Q313 CHR BLK
Q311 CHR DRV
Q312 R.G.B BKK
Q303 ST/BY SW
Q301 CURRENT SW
Q304,305 AV SW
Q351 Y OUT
Q1361 Y BUFF
Q1363 AV SW-3
RV310
K (SYSTEM CONTROL, MEMORY, AUDIO CONTROL, SURROUND PROCESSER.)
IC001 TUN CTL
IC003
IC201 AUDIO CTL
IC202(1/4) SURROUND PROCESSER
IC202(2/4)
IC202(3/4)
IC202(4/4)
IC203 L AUDIO OUT
IC204 R AUDIO OUT
Q13 AV SW
Q14 S SW
Q0002 PULS SW
Q0009 PULS AMP
Q0004,005 SYNC BUFF
Q0003 VIDEO OUT
Q0001 RESET
Q0006 +5V REG
Q0205 SURRND SW-1
Q0202 MUTE-6
Q0204 BUFF
Q0220 MUTE-2
Q0208 MUTE-1
Q0209 MUTE-4
Q0206 SURRND SW-2
Q0207 MUTE-3
Q0201 MUTE-5
Q0203 BUFF
H3 (REMOCON RECIEVER)
IC1
D4 B
D3 A
D1 STANDBY
5V
STANDBY
A
B
SIRC
Q35 SYNC SEP
TO K
TO B
TO C
TO D
TO V
TO A
TO J
TO F1


B (CHROMA DECODER, R·G·B INTERFACE, AV SW, CHROMA SW)
C (R·G·B OUT)
A/C
Q704,707,710 R.G.B A/C
R IN
G IN
B IN
Q702,705,708 R G B AMP
Q701,706,709 R G B OUT
R G B OUT
RV703 G DRIVE
RV704 R. DRIVE
TO B
TO D
V901 PICTURE TUBE
+12V
Q349 INVERTOR
IC1302 DYNAMIC PIC
Q342 Y OUT
Q343,344 Y DL
Q346 Y BUFF
Q347,348 OP AMP
Q350 SEP OUT
IC301
R-Y IN
B-Y IN
SCP
R1 IN
G1 IN
B1 IN
COLOR
BRT
BLK1
PIC
BLK2
G2 IN
R S/H
G S/H
B S/H
R OUT
G OUT
B OUT
R G B INTERFACE
AC
R2 IN
B2 IN
Y IN
RV310
Q351 Y OUT
R. OUT
G OUT
B. OUT
TO C
AC
TEXT R
TEXT B
TO V
BLK
TEXT G
IC1301 SHARPNESS CTL
Q1361 Y BUFF
Q1363 AV SW-3
Q304,305 AV SW
VM OUT
TV
V (TELETEX)
IC02 VIDEO PROCESSOR
X01 6MHz
CT01
VIDEO
VIDEO IN
OSC IN
OSC OUT
SYNC IN
Q04 BUFFER
SYNC
CLOCK
X02 13.875MHz
IC03 EURO-CCT
TCS, SCS
VCS
IN
F6
TTD
TTC
OUT
IC04 8k bit Static RAM
A0
A12
D0
D7
OE
WE
+5V
D04
Q06 CLOCK SW
X03 4MHz
IC01 MICRO CONTROL
TV
TXD
CLK
INT/TD
T1
SCL
(SDA)
SDA
TO K
R
G
B
BLK
Q11 R AMP
Q10 G AMP
Q09 B AMP
Q07 BLK AMP
RV01 PIC LEVEL
Q05 BUFFER
+14V
Q02 +12V REG
+12V
STAND BY
Q03 SWITCHING
+7V
Q01 +5V REG
+5V
TO A
TO J
IC001 TUN CTL
MOD3
OSC1
OSC2
CLK
DAT
TXCLK
TXDAT
STBY
PRG
BLK
UK-STLED
RESP
M/S
ABC
UK-ST2
UK-ST1
UK-ST0
NTSC4.43
NTSC3.58
SECAM
PAL
G
SIRCS
AV1
AV3
K00~03
K10~13
AFT
H SYNC
50/60-1
50/60-2
VPULSE
VP1W
M SYNC
RESET
HAFC
HP1W
SUR
Q13 AV SW
Q14 S SW
S SW
SYSTEM SW
AV 3
AFT
SYNC
M50/60
50/60
+BLK
V PULS
Q009 PULS AMP
MAIN VIDEO
Q004,005 SYNC BUFF
Q003 VIDEO OUT
VIDEO OUT
VIDEO IN
Q001 RESET
H AFC
H PULS
Q006 +5V REG
Q205 SURRUND SW-1
B OUT
G OUT
R OUT
B IN
G IN
R IN
\L
IC201 AUDIO CTL
SCL
SDA
AF 1 IN
L IN
AF 2 IN
R IN
4 LEVEL
LED 2
LED 1
L OUT
L BASS
BASS
Q OUT
Q IN
R BASS
R OUT
Q202 MUTE-6
Q204 BUFF
SURROUND PROCESSER
IC202(1/4)
IC202(2/4)
IC202(3/4)
IC202(4/4)
Q206 SURROUND SW-2
IC203 L AUDIO OUT
L(SP) OUT
SCP
Q220 MUTE-2
Q208 MUTE-1
Q209 MUTE-4
Q207 MUTE-3
ST-BY
TO F1
IC204 R AUDIO OUT
R(SP) OUT
Q201 MUTE-5
S CROMA
Q203 BUFF
VR
ONTROL, MEMORY, TROL PROCESSER.
D (JUNGLE, 50/60SW H OUT, V OUT, COMPARATOR, PIN OUT)
MAIN VIDEO
Q503 VIDEO BUFF
BRT ABL
Q1609 BRT. ABL OUT
Q1613 ABL FB
Q1608 PIC ABL OUT
Q1610 ABL DRV
PIC ABL
Q502 V ZOOM
IC501 JUNGLE
V RAMP GEN
VCR
SCP OUT
MUTING 50/60
O2
FBP IN
HD OUT
V-BLK OUT
VIDEO IN
SAFETY IN
O1
VCO OUT
VCO IN
SAFETY V BLK IN
VD OUT
H. AFC IN
Q515 AFC SW
SCP OUT
50/60 OUT
Q501 50/60 SW
RV502 H. PHASE
+BLK
Q507 V ZOOMING
RV1506 V CENT
Q505,506 V CENT
H. PULSE
V. PULSE
Q531 VIDEO AMP-2
Q598 VIDEO AMP-1
Q801 +B LIFT
IC502 V OU
REF
IN
OUT
RV1509 ANG
RV1504 H SIZE
IC1501 PIN OUT
Q1551,1552 PIN PIN DRIVE OUT
X IN
I REF
F
VCC
OUT
RV1501 P. COR
RV1503 PIN AMP
RV1505 CORNER COR
Q1552 PIN MOD
200V
IC503 +12V REG
ST. BY
ST/BY
+15V IN
+12V OUT
+15V
H CENT
D802 +200V RECT
D801 +25V RECT
D850 +15V RECT
200V
28V
15V
Q805 H.DRV
T801 H.DT
Q804 H.OUT
G2 R


C (R·G·B OUT)
Q704,707,710 R.G.B A/C
Q702,705,708 R.G.B AMP
Q703,706,709 R.G.B OUT
RV703 G DRIVE
RV704 R DRIVE
R G B OUT
TO D
V901 PICTURE TUBE
IC02 VIDEO PROCESSOR
X01 6MHz
CT01
VIDEO IN
OSC IN
OSC OUT
Q04 BUFFER
SYNC
CLOCK
X02 13.875MHz
IC03 EURO-CCT
IC04 8k bit Static RAM
TCS SCS VCS IN F6 TTD TTC
OUT
A0 A12 D0 D7
OE WE
+5V
D04
Q06 CLOCK SW
X03 4MHz
IC01 MICRO CONTROL
TV CLOCK
CLOCK OSC
SCL
(SDA)
SDA
INT/TD
T1
Q11 R AMP
Q10 G AMP
Q09 B AMP
Q07 BLK AMP
R G B BLK
TO B
+14V Q02 +12V REG +12V
Q03 SWITCHING
+7V Q01 +5V REG +5V
RV01 PIC LEVEL
Q05 BUFFER
V (TELETEX)
VIDEO
Q503 VIDEO BUFF
ABL
Q1609 BRT. ABL OUT
Q1613 ABL F.B
Q1608 PIC ABL OUT
Q1610 ABL DRV
Q502 V ZOOM
IC501 JUNGLE
V. RAMP GEN
VCR
SCP OUT
MUTING 50/60
O2
FBP IN
HD OUT
V-BLK OUT
VIDEO IN
SAFETY IN
O1
VCO OUT
VCO IN
SAFETY V. BLK IN
VD OUT
AFC IN
Q515 AFC SW
60 OUT
Q501 50/60 SW
+12V
RV502 H. PHASE
Q507 V. ZOOMING
RV1506 V CENT
Q505,506 V CENT
PULSE
Q591 VIDEO AMP 2
Q598 VIDEO AMP 1
Q801 +B DET 2
Q806 +B DET 1
IC502 V. OUT
REF
IN
OUT
RV1507 V SIZE
RV1509 V ANG
VIDE TO V
+B
S.TO V
V+ H+ H- V-
DY
RV1504 H SIZE
IC1501 PIN OUT
Q1551, 1552 PIN PIN DRIVE OUT
XIN1
IREF
F
VCC
OUT
RV1501 P COR
RV1503 PIN AMP
RV1505 CORNER COR
Q1552 PIN MOD
200V
IC503 +12V REG
ST/BY
+15V IN
+12V OUT
+15V
+12V
H CENT
200V
D802 +200V RECT
28V D801 +25V RECT
15V D850 +15V RECT
HV
FV
H1, H2
TO CRT
Q805 H. DRV
T801 H.DT
Q804 H. OUT
D603 G2 RECT
G2
D (JUNGLE, 50/60SW H OUT, V OUT, COMPARATOR, PIN OUT)

5-3. CIRCUIT BOARDS LOCATION


H3
C
V
B
F2
A
K
D
F1
J1

Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : 1／4W

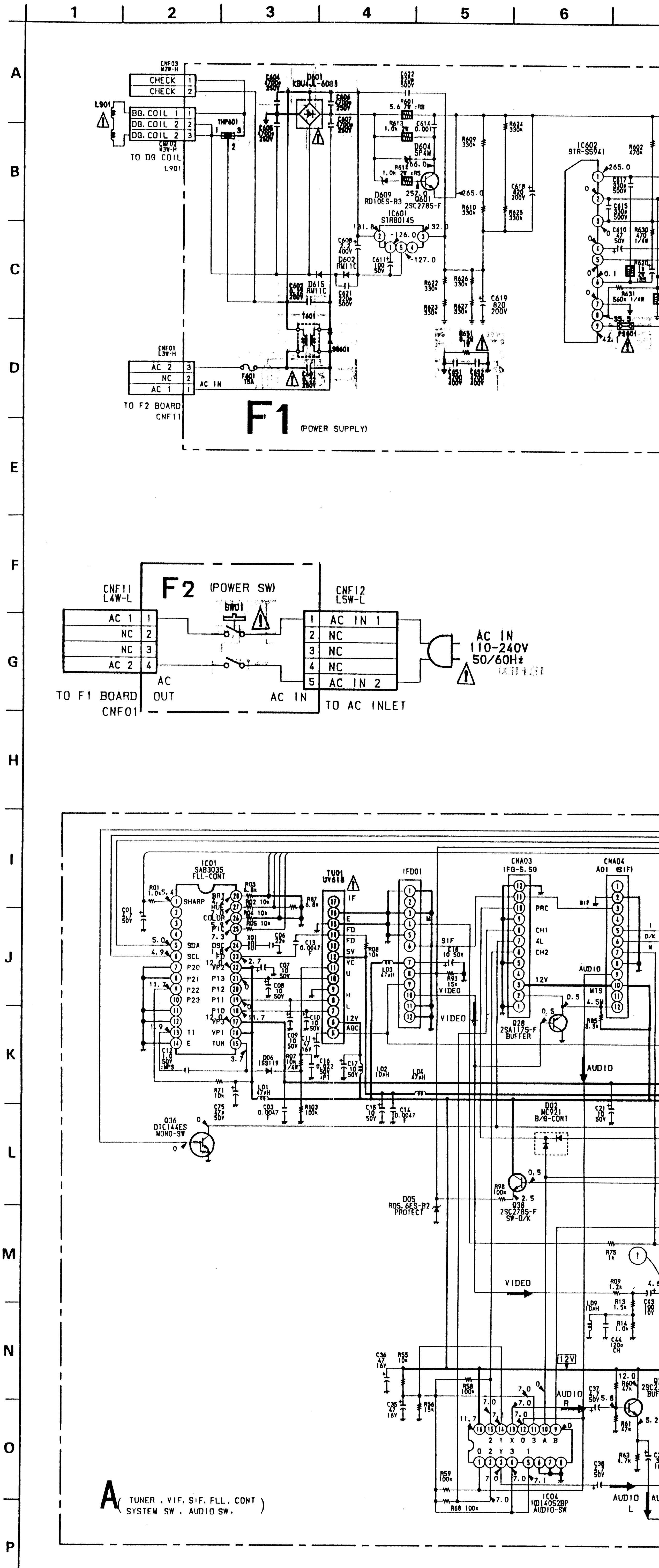
- All resistors are in ohms.
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a PAL color−bar signal input.
  no mark : PAL
  < > : SECAM
  ( ) : NTSC 3.58MHz
  [ ] : NTSC 4.43MHz
- ▭ : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- ━━ : B+line
- ➝ : signal path.

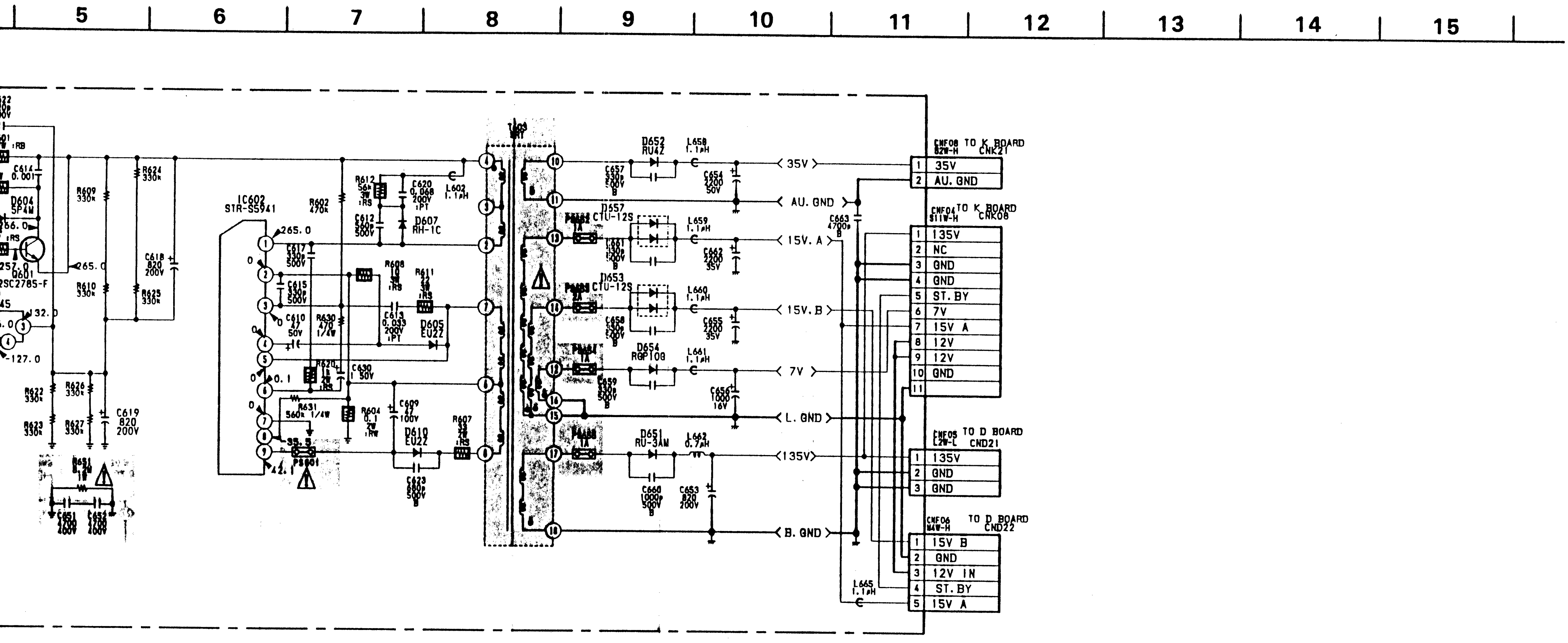
Reference information

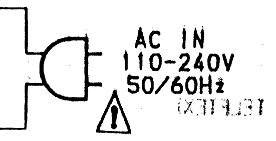
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF−8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

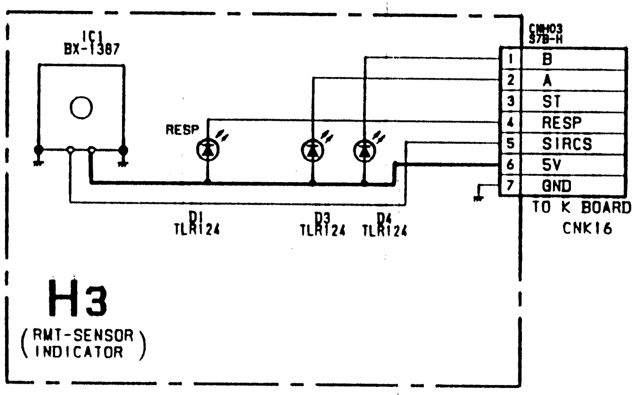
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-4. SCHEMATIC DIAGRAM (1)

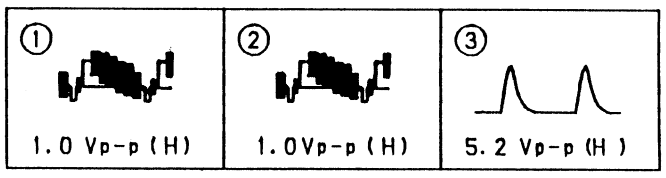

1
2
3
4
5
6
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
CNF03 M2W-H
CHECK 1
CHECK 2
L901
BG. COIL 1
DG. COIL 2
DG. COIL 2
CNF02 M3W-H
TO DG COIL L901
THP601
D601 KBU4JL-6001S
D609 RD10ES-B3
Q601 2SC2785-F
IC601 STR80145
D602 RM11C
D615 RM11C
IC602 STR-S5941
CNF01 L3W-H
AC 2
NC
AC 1
AC IN
F601 T5A
TO F2 BOARD CNF11
F1 (POWER SUPPLY)
CNF11 L4W-L
F2 (POWER SW)
S601
CNF12 L5W-L
AC 1
NC
NC
AC 2
AC IN 1
NC
NC
NC
AC IN 2
AC IN 110-240V 50/60Hz
TO F1 BOARD CNF01
AC OUT
AC IN
TO AC INLET
IC01 SAB3035 FLL-CONT
TU01 UV618
IFD01
CNA03 IF8-5.58
CNA04 A01 (SIF)
Q28 2SA1175-F BUFFER
D02 MC921 B/G-CONT
Q36 DTC144ES MONO-SW
D05 RD5.6ES-B2 PROTECT
Q38 2SC2785-F SW-D/K
IC04 HD14052BP AUDIO-SW
VIDEO
AUDIO
AUDIO R
AUDIO L
12V
A (TUNER, VIF, SIF, FLL, CONT SYSTEM SW, AUDIO SW)

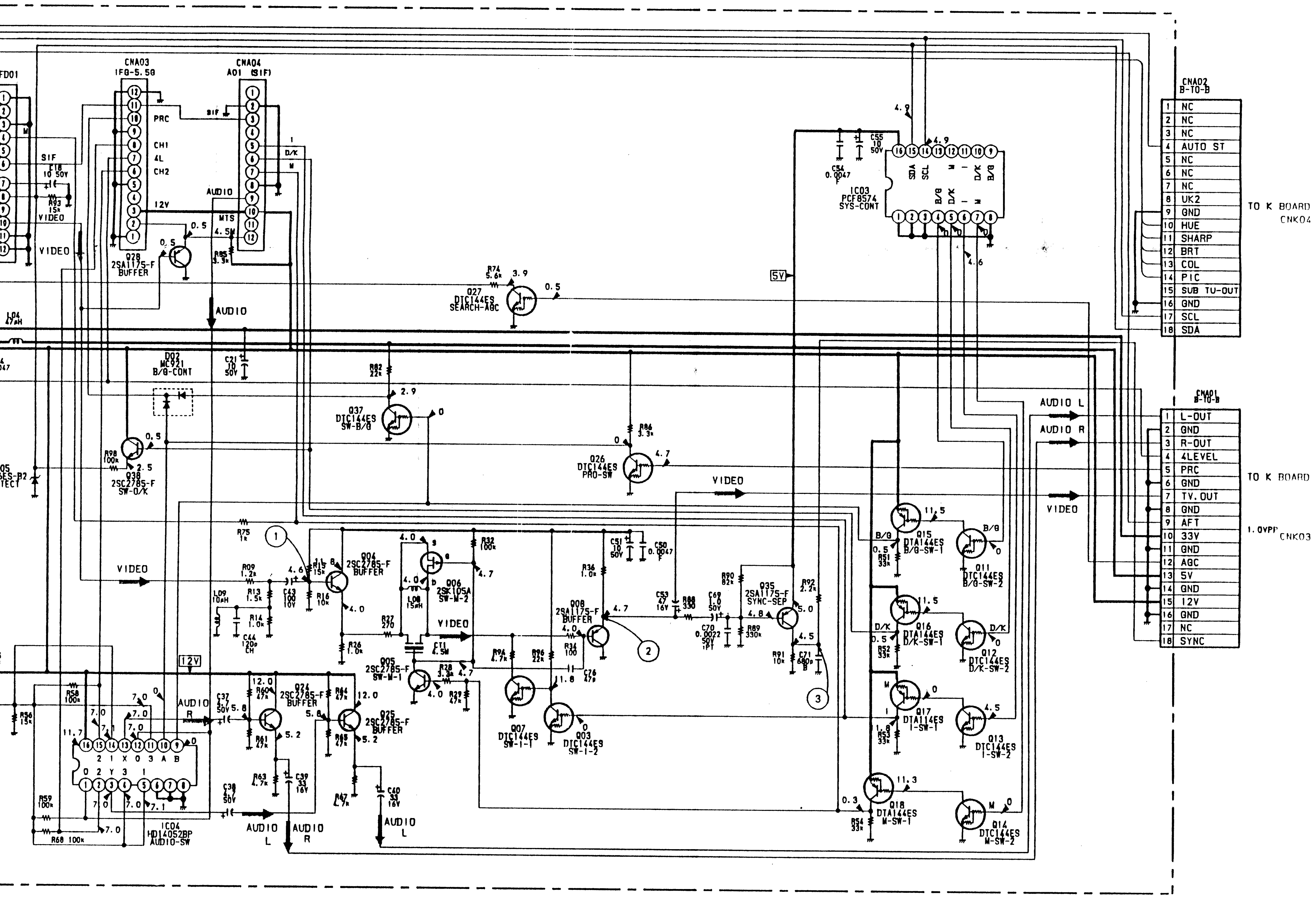

5
6
7
8
9
10
11
12
13
14
15
IC602
STR-S5941
265.0
Q601
2SC2785-F
D604
D605
EU22
D607
RH-1C
D610
EU22
PS601
T603
FBT
D652
RU4Z
L658
1.1µH
D657
CTU-12S
L659
1.1µH
D653
CTU-12S
L660
1.1µH
D654
RGP10G
L661
1.1µH
D651
RU-3AM
L662
0.7µH
C654
2200
50V
C662
2200
35V
C655
2200
35V
C656
1000
16V
C660
1000p
500V
C653
82
200V
C663
4700p
L665
1.1µH
35V
AU. GND
15V. A
15V. B
7V
L. GND
135V
B. GND
CNF08
TO K BOARD
CNK21
1 35V
2 AU. GND
CNF04
TO K BOARD
CNK08
1 135V
2 NC
3 GND
4 GND
5 ST. BY
6 7V
7 15V A
8 12V
9 12V
10 GND
11
CNF05
TO D BOARD
CND21
1 135V
2 GND
3 GND
CNF06
TO D BOARD
CND22
1 15V B
2 GND
3 12V IN
4 ST. BY
5 15V A

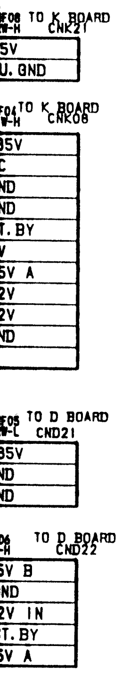

AC IN
110-240V
50/60Hz


IC1
BX-1387
RESP
D1
TLR124
D3
TLR124
D4
TLR124
CNH03
1 B
2 A
3 ST
4 RESP
5 SIRCS
6 5V
7 GND
TO K BOARD
CNK16
H3
(RMT-SENSOR INDICATOR)

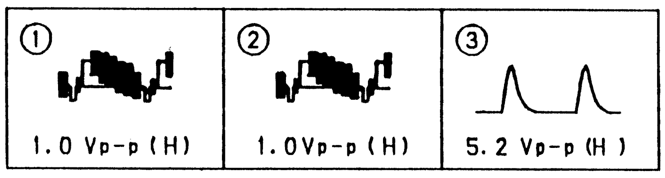
● A BOARD WAVEFORM

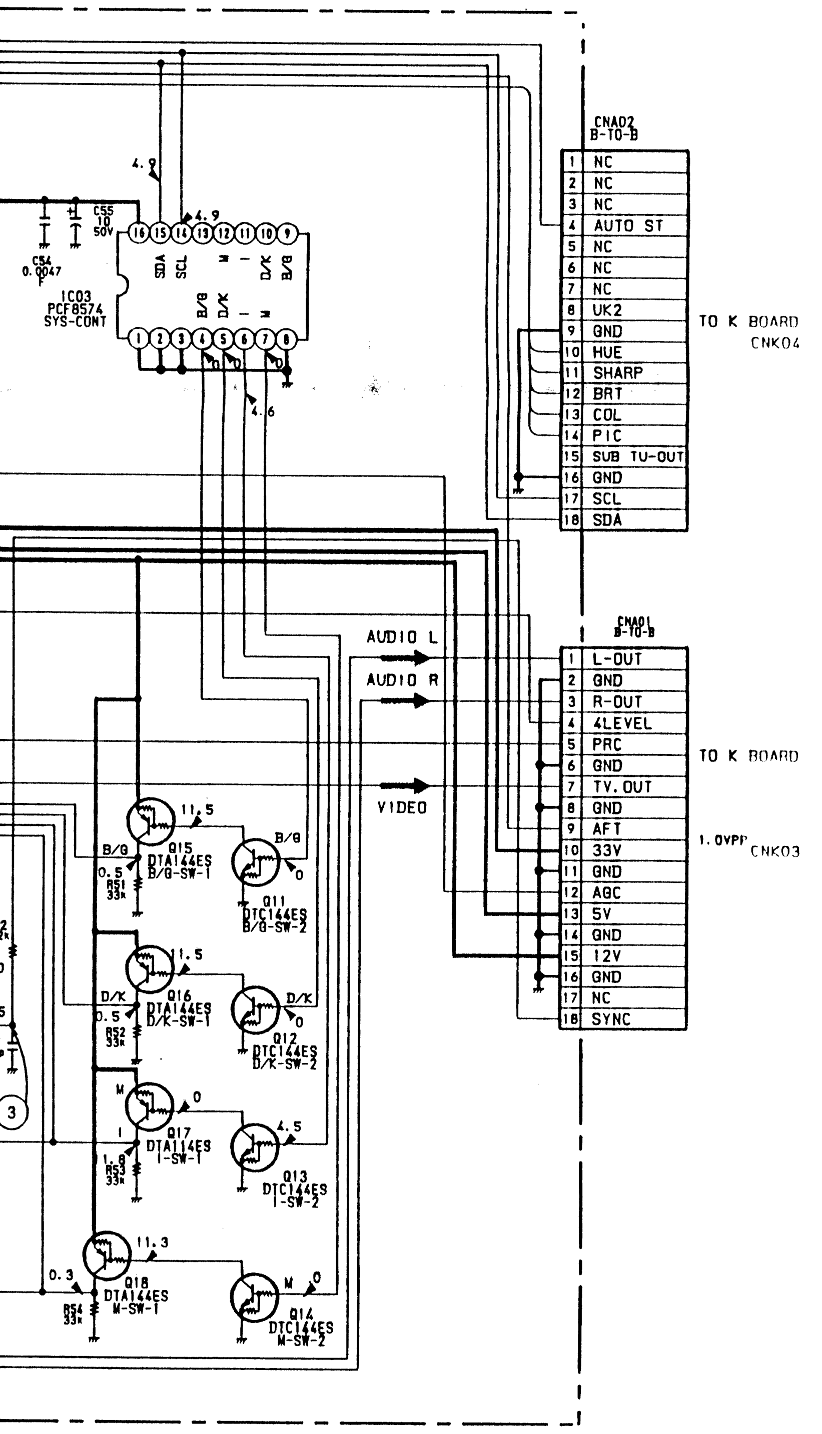



CNA03
IFG-5.5G
CNA04
A01 (SIF)
SIF
VIDEO
PRC
CH1
4L
CH2
12V
AUDIO
MTS
Q28
2SA1175-F
BUFFER
Q27
DTC144ES
SEARCH-AGC
D02
MC921
B/G-CONT
Q37
DTC144ES
SW-B/G
Q38
2SC2785-F
SW-D/K
Q26
DTC144ES
PRO-SW
Q04
2SC2785-F
BUFFER
Q06
2SK105A
SW-M-2
Q05
2SC2785-F
SW-M-1
Q08
2SA1175-F
BUFFER
Q07
DTC144ES
SW-I-1
Q03
DTC144ES
SW-I-2
Q35
2SA1175-F
SYNC-SEP
Q24
2SC2785-F
BUFFER
Q25
2SC2785-F
BUFFER
IC04
HD14052BP
AUDIO-SW
IC03
PCF8574
SYS-CONT
Q15
DTA144ES
B/G-SW-1
Q11
DTC144ES
B/G-SW-2
Q16
DTA144ES
D/K-SW-1
Q12
DTC144ES
D/K-SW-2
Q17
DTA144ES
I-SW-1
Q13
DTC144ES
I-SW-2
Q18
DTA144ES
M-SW-1
Q14
DTC144ES
M-SW-2
AUDIO L
AUDIO R
VIDEO
5V
12V
CNA02
B-TO-B
1 NC
2 NC
3 NC
4 AUTO ST
5 NC
6 NC
7 NC
8 UK2
9 GND
10 HUE
11 SHARP
12 BRT
13 COL
14 PIC
15 SUB TU-OUT
16 GND
17 SCL
18 SDA
TO K BOARD
CNK04
CNA01
B-TO-B
1 L-OUT
2 GND
3 R-OUT
4 4LEVEL
5 PRC
6 GND
7 TV. OUT
8 GND
9 AFT
10 33V
11 GND
12 AGC
13 5V
14 GND
15 12V
16 GND
17 NC
18 SYNC
TO K BOARD
CNK03
1.0VPP


TO K BOARD CNK21
5V
U. GND
TO K BOARD CNK08
35V
C
ND
ND
T.BY
V
5V A
2V
2V
ND
TO D BOARD CND21
35V
ND
ND
TO D BOARD CND22
5V B
ND
2V IN
T.BY
5V A

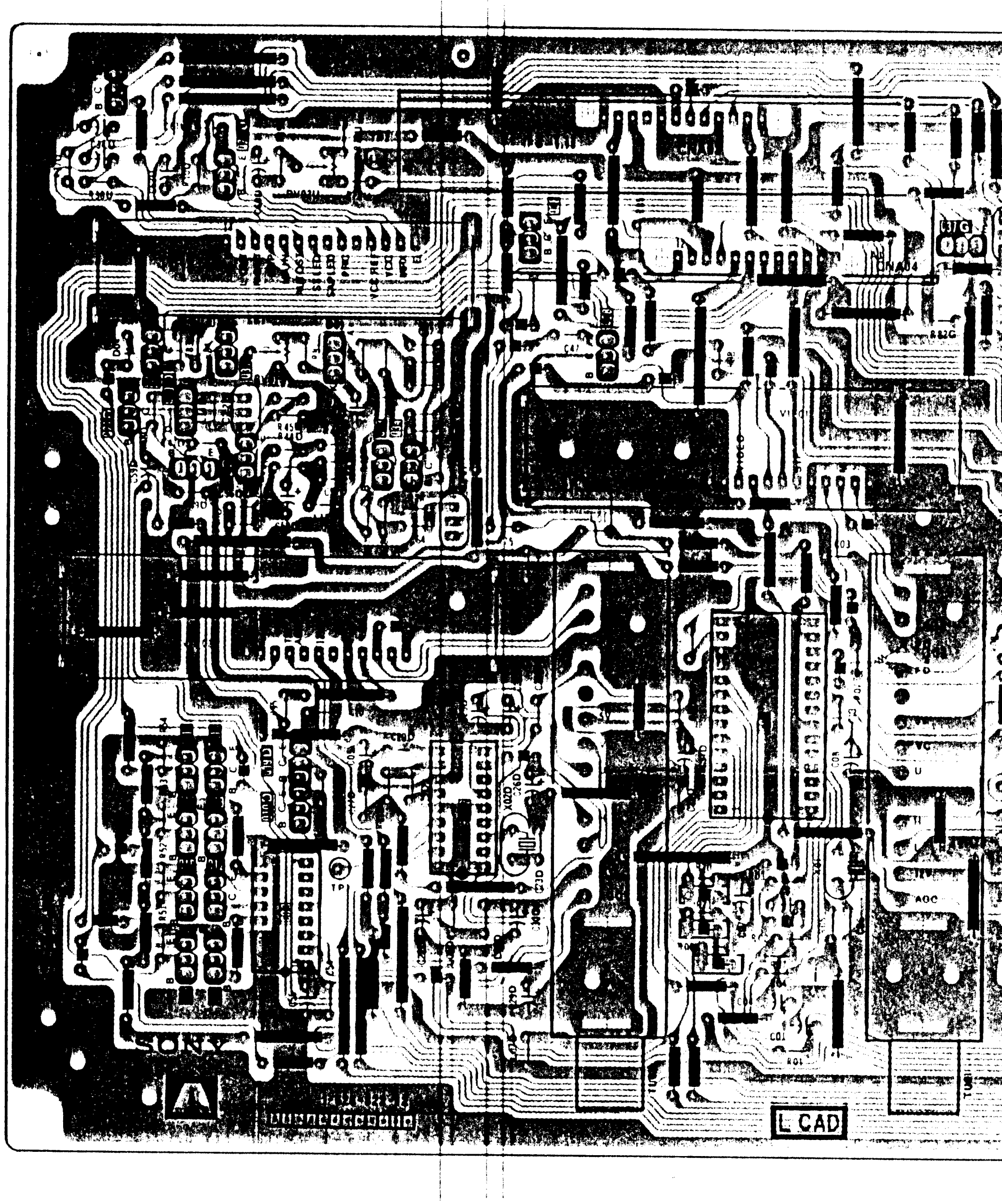
● A BOARD WAVEFORM



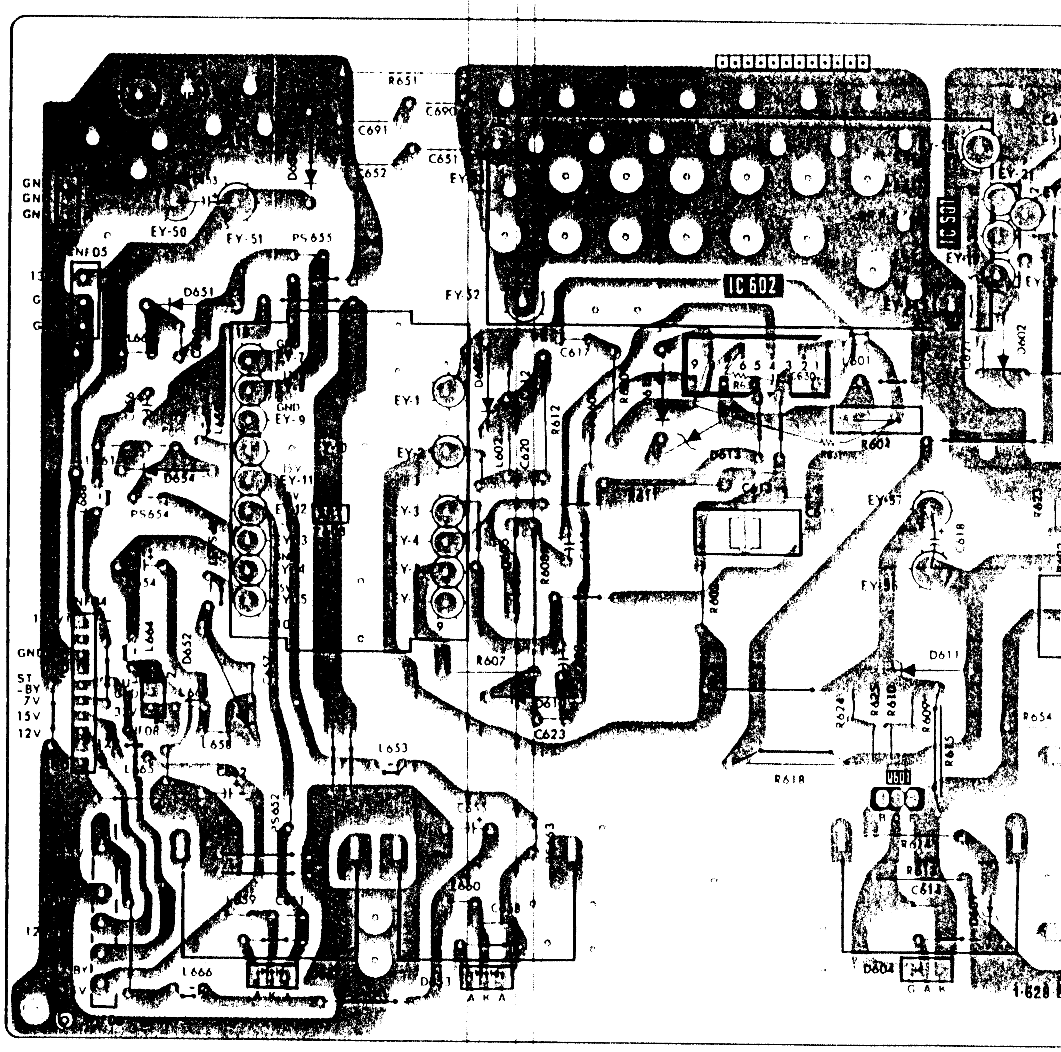

C55
10
50V
C54
0.0047
F
IC03
PCF8574
SYS-CONT
SDA
SCL
B/G
D/K
I
M
4.9
4.6
0
CNA02
B-TO-B
1 NC
2 NC
3 NC
4 AUTO ST
5 NC
6 NC
7 NC
8 UK2
9 GND
10 HUE
11 SHARP
12 BRT
13 COL
14 PIC
15 SUB TU-OUT
16 GND
17 SCL
18 SDA
TO K BOARD
CNK04
AUDIO L
AUDIO R
VIDEO
CNA01
B-TO-B
1 L-OUT
2 GND
3 R-OUT
4 4LEVEL
5 PRC
6 GND
7 TV. OUT
8 GND
9 AFT
10 33V
11 GND
12 AGC
13 5V
14 GND
15 12V
16 GND
17 NC
18 SYNC
TO K BOARD
1.0VPP
CNK03
Q15
DTA144ES
B/G-SW-1
Q11
DTC144ES
B/G-SW-2
Q16
DTA144ES
D/K-SW-1
Q12
DTC144ES
D/K-SW-2
Q17
DTA114ES
I-SW-1
Q13
DTC144ES
I-SW-2
Q18
DTA144ES
M-SW-1
Q14
DTC144ES
M-SW-2
R51 33k
R52 33k
R53 33k
R54 33k
11.5
11.5
11.3
0.5
0.5
1.8
0.3
4.5
0
③

5-5. PRINTED WIRING BOARDS (1) —conductor side—

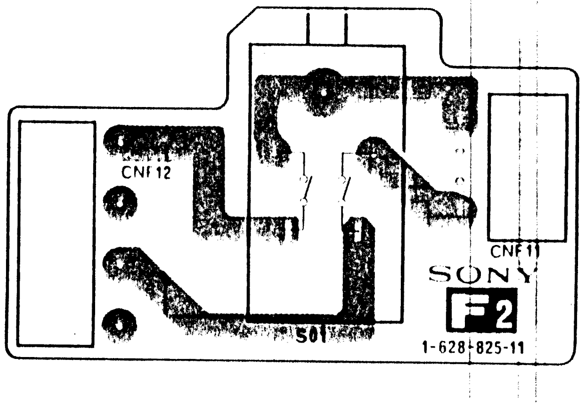
—A Board—



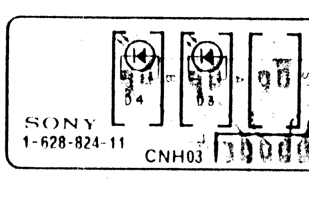
—F1 Board—


IC602
IC601
R651
C691
C690
C651
C652
EY-50
EY-51
PS655
D651
EY-1
EY-2
EY-3
EY-4
R612
R607
R601
D611
C623
L653
L658
L666
L664
D652
D604
C614
R618

—F2 Board—


CNF12
CNF11
SONY
F2
1-628-825-11

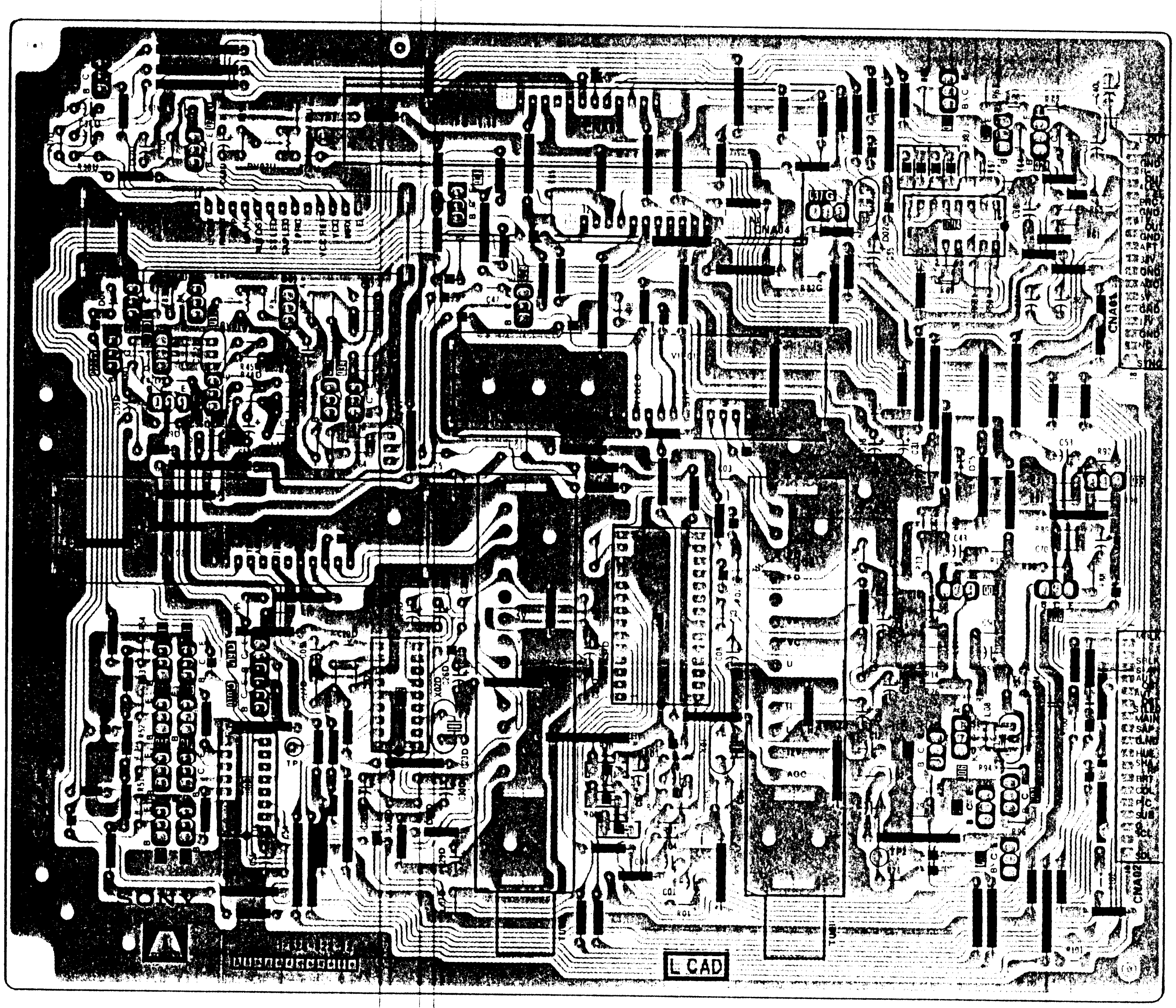
—H3 Board—


SONY
1-628-824-11
CNH03

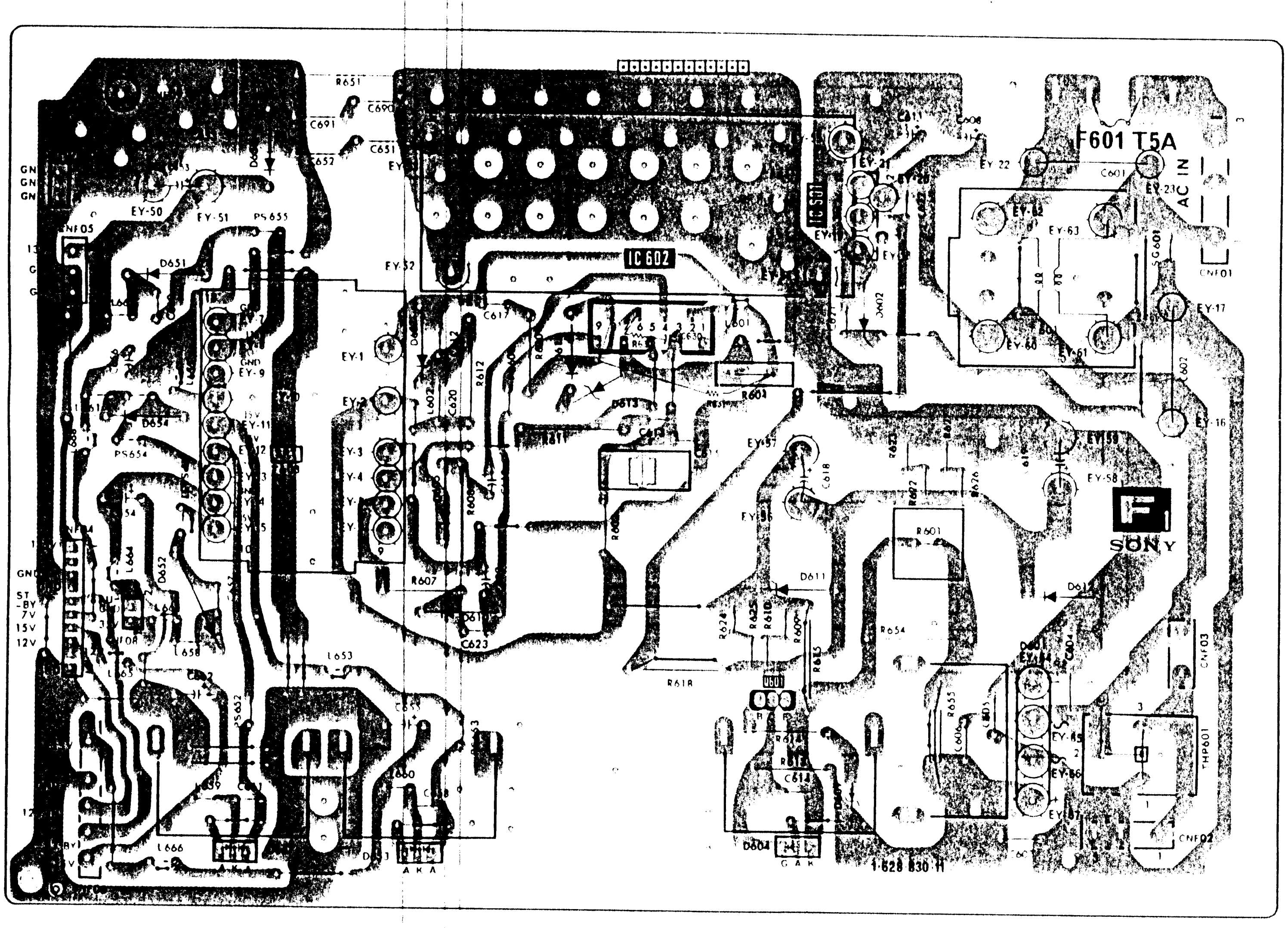
[TUNER, VIF, SIF, FLL, CONT
SYSTEM SW, AUDIO SW] **F1** [POWER SUPPLY] **F2** [POWER SW] **H3** [RMT-SENSOR
INDICATOR]

RINTED WIRING BOARDS (1) —conductor side—

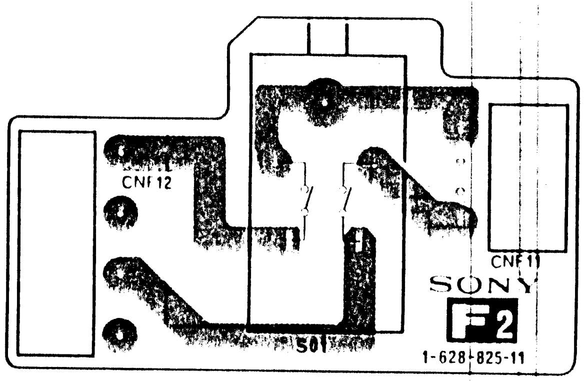
ard—



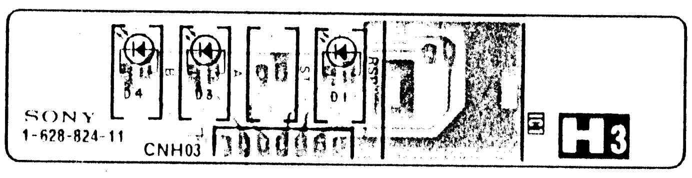
ard—


F601 T5A
AC IN
IC602
IC601
SONY
F
R651
C651
D651
D652
PS654
PS655
R601
R607
R618
D611
D604
C623
TH601
CNF01
CNF02
CNF03
CNF05
GND
ST-BY
7V
15V
12V
1-628-830-11

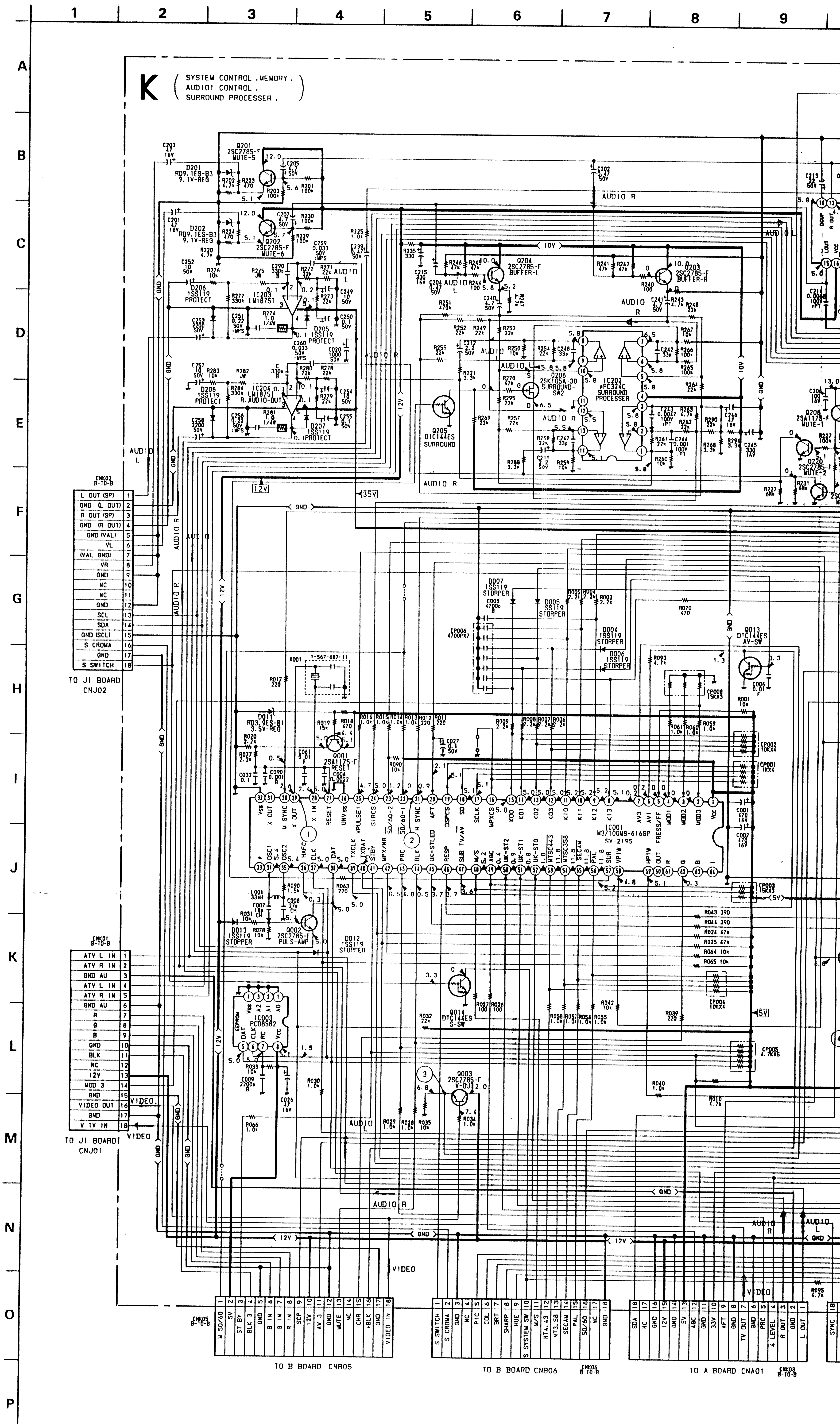
ard—

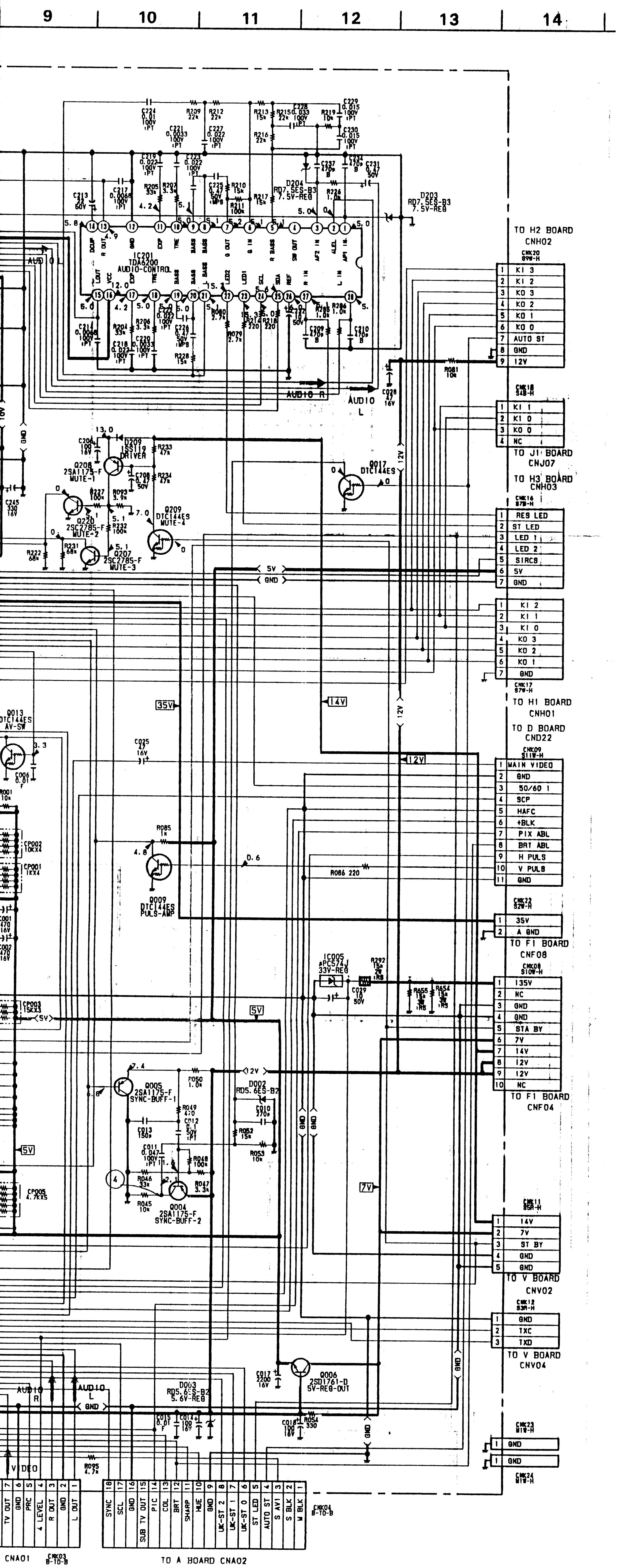

CNF12
CNF11
S01
SONY
F2
1-628-825-11

—H3 Board—


D4
D3
D1
SONY
1-628-824-11
CNH03
H3

5-6. SCHEMATIC DIAGRAM (2)

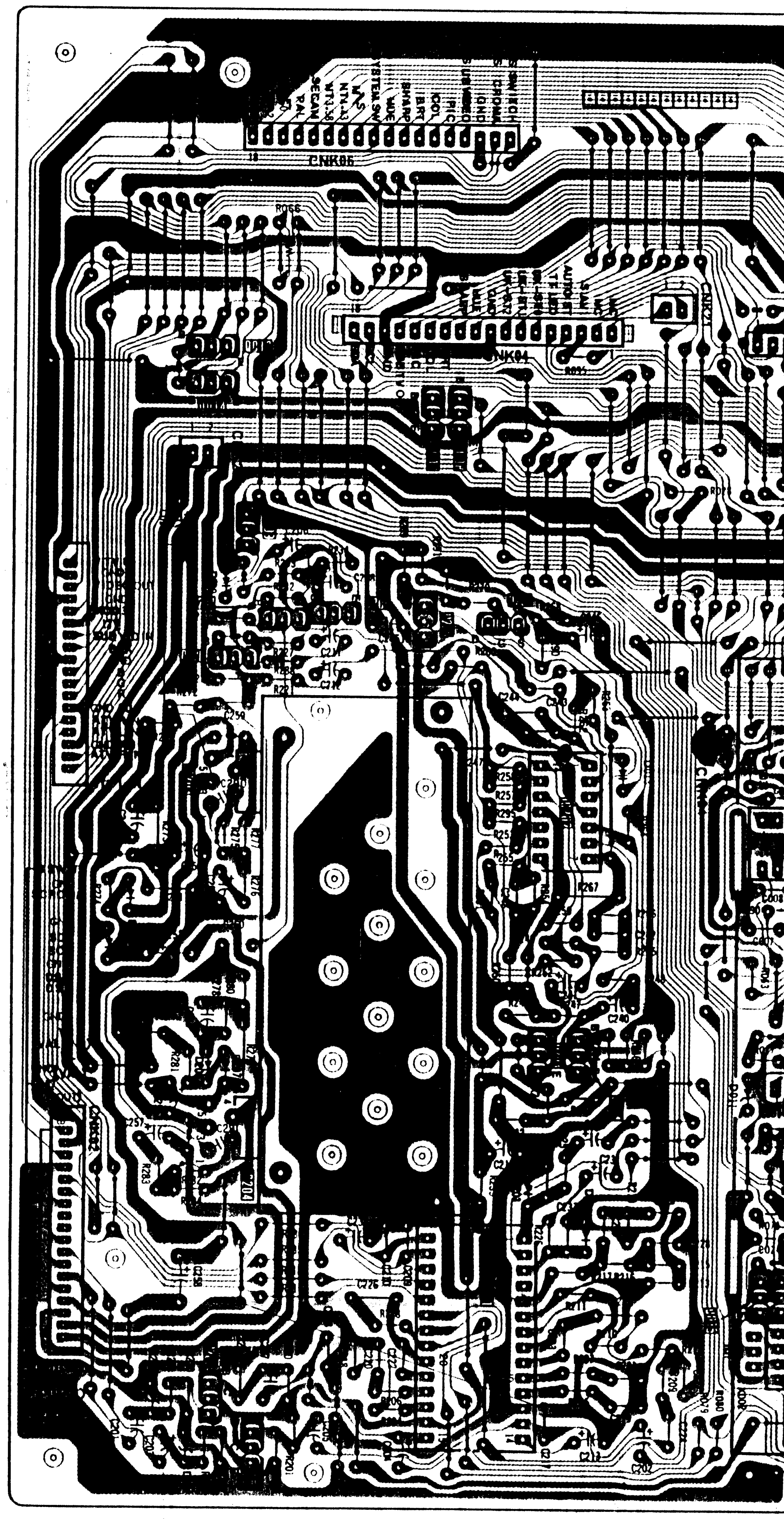

K
SYSTEM CONTROL, MEMORY, AUDIO CONTROL, SURROUND PROCESSER
Q201 2SC2785-F MUTE-5
Q202 2SC2785-F MUTE-6
D201 RD9.1ES-B3 9.1V-REG
D202 RD9.1ES-B3 9.1V-REG
IC203 LM1875T
IC204 LM1875T R.AUDIO-OUT
D205 1SS119 PROTECT
D206 1SS119 PROTECT
D207 1SS119 PROTECT
D208 1SS119 PROTECT
Q204 2SC2785-F BUFFER-L
Q203 2SC2785-F BUFFER-R
Q206 2SK105A-30 SURROUND-SW2
IC202 μPC324C SURROUND PROCESSER
Q205 DTC144ES SURROUND
Q208 2SA1175-F MUTE-1
Q220 2SC2785-F MUTE-2
AUDIO L
AUDIO R
CNK02 B-10-B
L OUT (SP)
GND (L OUT)
R OUT (SP)
GND (R OUT)
GND (VAL)
VL
(VAL GND)
VR
GND
NC
NC
GND
SCL
SDA
GND (SCL)
S CROMA
GND
S SWITCH
TO J1 BOARD CNJ02
D007 1SS119 STORPER
D005 1SS119 STORPER
D004 1SS119 STORPER
D006 1SS119 STORPER
Q013 DTC144ES AV-SW
X001 1-567-687-11
D011 RD3.9ES-B1 3.5V-REG
Q001 2SA1175-F RESET
IC001 M37100M8-616SP SV-2195
Q002 2SC2785-F PULS-AMP
D013 1SS119 STOPPER
D012 1SS119 STOPPER
Q014 DTC144ES S-SW
Q003 2SC2785-F V-OUT
IC003 PCD8582 EEPROM
CNK01 B-10-B
ATV L IN
ATV R IN
GND AU
ATV L IN
ATV R IN
GND AU
R
G
B
GND
BLK
NC
12V
MOD 3
GND
VIDEO OUT
GND
V TV IN
TO J1 BOARD CNJ01
VIDEO
12V
GND
5V
CNK05 B-10-B
M SO/60
5V
ST BY
BLK 3
GND
G IN
B IN
R IN
SCP
12V
AV 3
GND
MUTE
NC
CHR
+BLK
GND
VIDEO IN
TO B BOARD CNB05
S SWITCH
S CROMA
GND
NC
COL
BRT
SHARP
HUE
S SYSTEM SW
M/S
NT4.43
NT3.58
SECAM
PAL
SO/60
NC
GND
TO B BOARD CNB06
CNK04 B-10-B
SDA
NC
GND
12V
5V
ABC
GND
33V
AFT
GND
TV OUT
GND
PRC
4 LEVEL
SCL
GND
L OUT
TO A BOARD CNA01
CNK03 B-10-B
SYNC


9
10
11
12
13
14
IC201
TDA6200
AUDIO-CONTROL
TO H2 BOARD
CNH02
KI 3
KI 2
KO 3
KO 2
KO 1
KO 0
AUTO ST
GND
12V
AUDIO R
AUDIO L
D203
RD7.5ES-B3
7.5V-REG
D204
RD7.5ES-B3
7.5V-REG
KI 1
KI 0
KO 0
NC
TO J1 BOARD
CNJ07
TO H3 BOARD
CNH03
Q017
DTC144ES
Q208
2SA1175-F
MUTE-1
D209
1SS119
DRIVER
Q209
DTC144ES
MUTE-4
Q210
2SC2785-F
MUTE-2
Q207
2SC2785-F
MUTE-3
RES LED
ST LED
LED 1
LED 2
SIRCS
5V
GND
KI 2
KI 1
KI 0
KO 3
KO 2
KO 1
GND
TO H1 BOARD
CNH01
TO D BOARD
CND22
35V
14V
12V
Q013
DTC144ES
AV-SW
MAIN VIDEO
GND
50/60 I
SCP
HAFC
+BLK
PIX ABL
BRT ABL
H PULS
V PULS
GND
Q009
DTC144ES
PULS-AMP
R086 220
35V
A GND
TO F1 BOARD
CNF08
IC005
μPC574J
33V-REG
135V
NC
GND
GND
STA BY
7V
14V
12V
12V
NC
TO F1 BOARD
CNF04
5V
Q005
2SA1175-F
SYNC-BUFF-1
D002
RD5.6ES-B2
Q004
2SA1175-F
SYNC-BUFF-2
7V
14V
7V
ST BY
GND
GND
TO V BOARD
CNV02
GND
TXC
TXD
TO V BOARD
CNV04
Q006
2SD1761-D
5V-REG-OUT
D063
RD5.6ES-B2
5.6V-REG
AUDIO R
AUDIO L
GND
VIDEO
TV OUT
PRC
4 LEVEL
R OUT
GND
L OUT
SYNC
SCL
GND
SUB TV OUT
PIC
COL
BRT
SHARP
HUE
GND
UK-ST 2
UK-ST 1
UK-ST 0
ST LED
AUTO ST
S AV1
S BLK
W BLK
CNA01
TO A BOARD CNA02

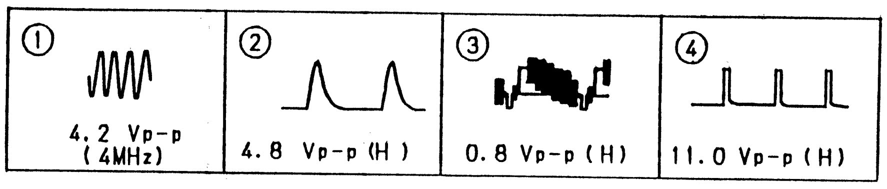
K [SYSTEM CONTROL, MEMORY, AUDIO CONTROL, SURROUND PROCESSER]

5-7. PRINTED WIRING BOARDS (2) —conductor side—

—K Board—

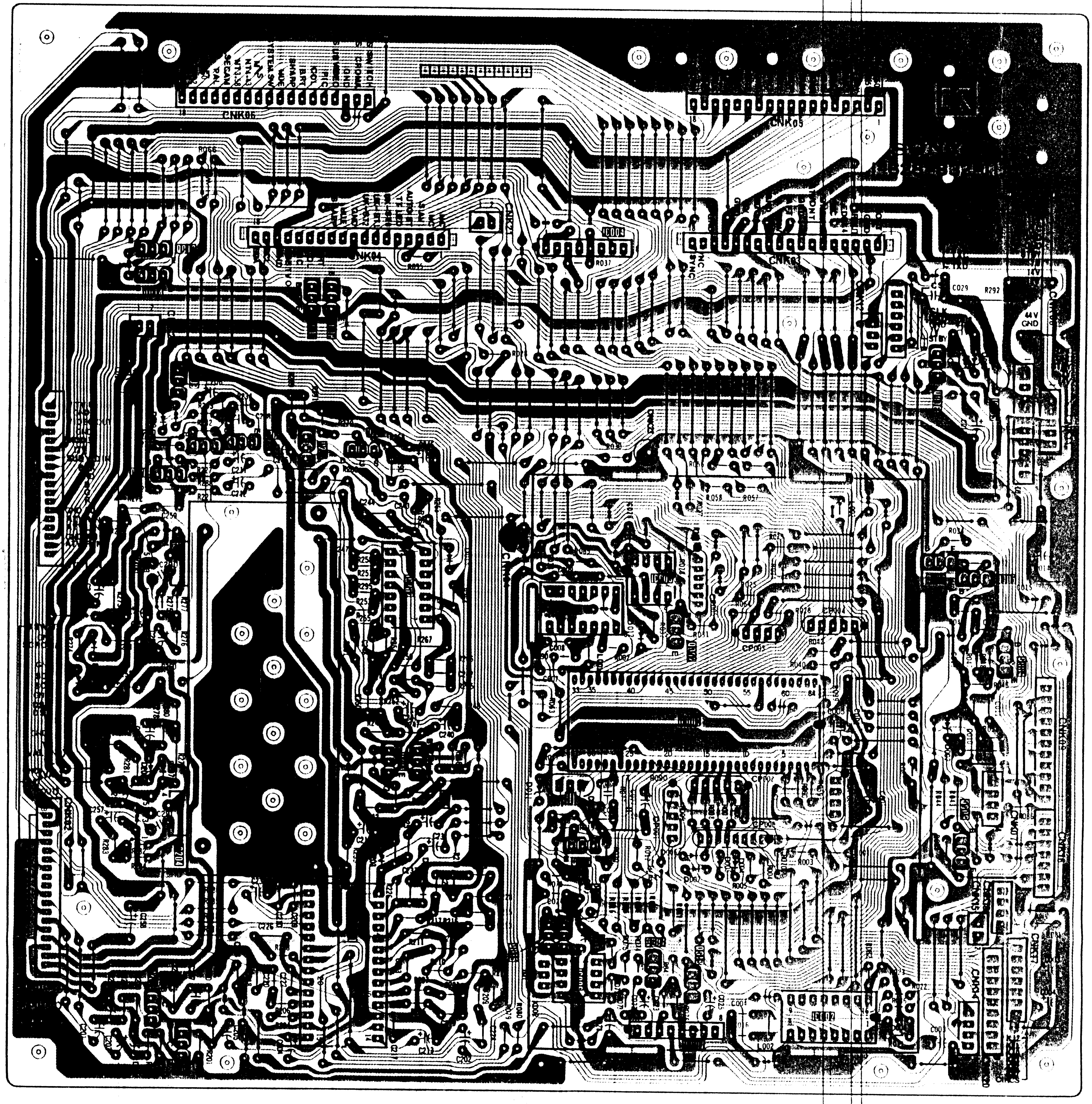

CNK06
CNK04

● K BOARD WAVEFORM

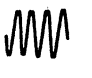
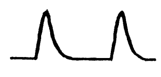
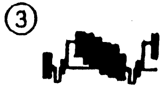
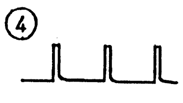

①
4.2 Vp-p
(4MHz)
②
4.8 Vp-p (H)
③
0.8 Vp-p (H)
④
11.0 Vp-p (H)

5-7. PRINTED WIRING BOARDS (2) —conductor side—

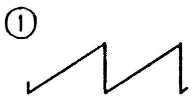
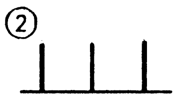
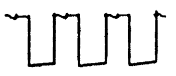
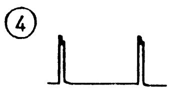
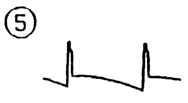
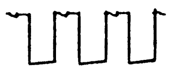
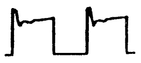
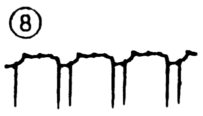
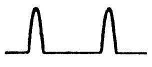
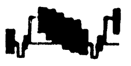
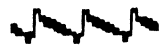
—K Board—


CNK06
CNK05
CNK04
CNK03
CNK02
R292
C029
GND

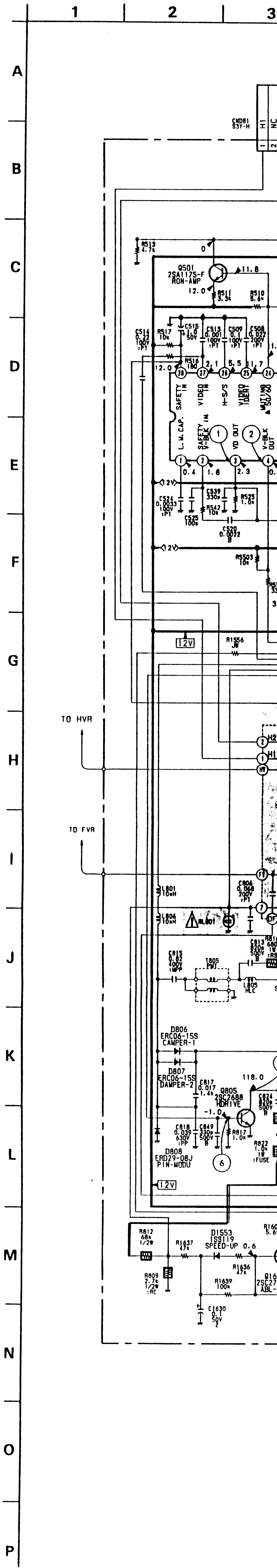
● K BOARD WAVEFORM

①	②	③	④
			
4.2 Vp-p (4MHz)	4.8 Vp-p (H)	0.8 Vp-p (H)	11.0 Vp-p (H)

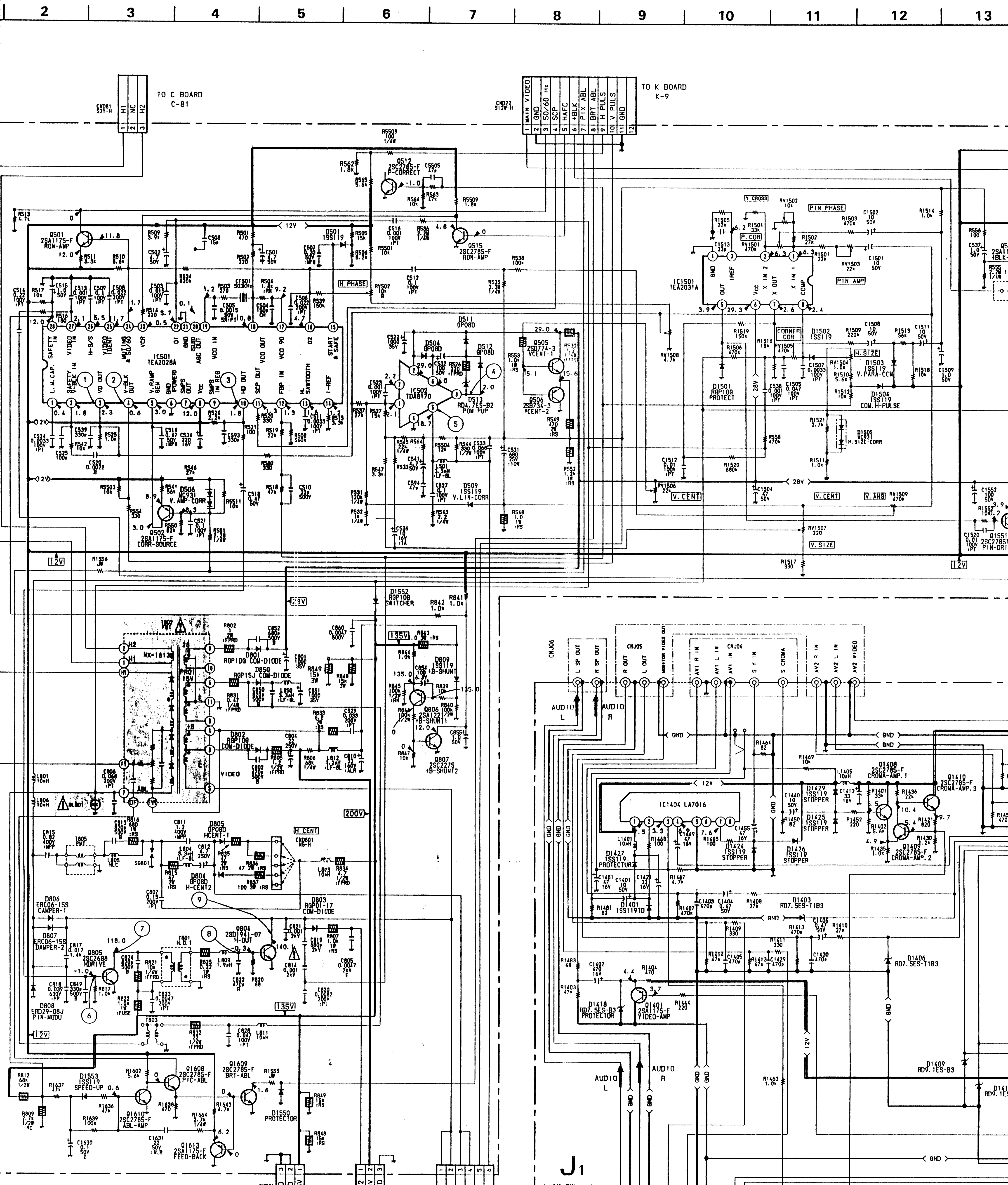
● D BOARD WAVEFORM

①  2.4 Vp-p (V)	②  10 Vp-p (V)	③  4.0 Vp-p (H)	④  28.0 Vp-p (V)	⑤  32.0Vp-p (V)
⑥  3.5 Vp-p (H)	⑦  250.0Vp-p (H)	⑧  13.0Vp-p (H)	⑨  1600.0Vp-p (H)	⑩  0.9 Vp-p (H)
⑪  1.5 Vp-p (H)				

5-8. SCHEMATIC DIAGRAM (3)


1
2
3
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
CN081 S3Y-H
H1
NC
R513 4.7k
Q501 2SA1175-F RON-AMP
11.8
12.0
R511 3.3k
R510 5.6k
C514 0.22 100V :PT
R517 10k
C515 1 50V
C513 0.001 100V :PT
C509 0.1 100V :PT
C508 0.022 200V :PT
R516 180
12.0
2.1
5.5
1.7
SAFETY IN
VIDEO IN
H-S/S
VIDEO OUT
MUTING
L.M. CAP.
SAFETY V-BLK IN
VD OUT
V-BLK OUT
0.4
1.8
2.3
12V
C524 0.0033 100V :PT
C539 330p
R525 1.0k
R542 10k
C525 100p
C520 0.0022 B
R5503 10k
12V
R1556 JW
TO HVR
TO FVR
H2
H1
L801 10uH
C806 0.068 200V :PT
L806 10uH
RL801
C815 0.82 400V :MPP
T805 PWJ
L805 HLC
C813 680p 500V B
D806 ERC06-15S CAMPER-1
D807 ERC06-15S DAMPER-2
C817 0.017 1.4k
Q805 2SC2688 HDRIVE
118.0
-1.0
C818 0.039 630V :PP
C849 330p 500V B
R817 1.0k
C824 820p 500V B
R822 1.0 1W :FUSE
D808 ERD29-08J PIN-MODU
12V
R812 68k 1/2W
R1637 47k
D1553 1SS119 SPEED-UP
0.6
R1636 47k
R1639 100k
R809 2.7k 1/2W :RC
C1630 0.1 50V Z
Q16 2SC27 ABL-

TIC DIAGRAM (3)


2
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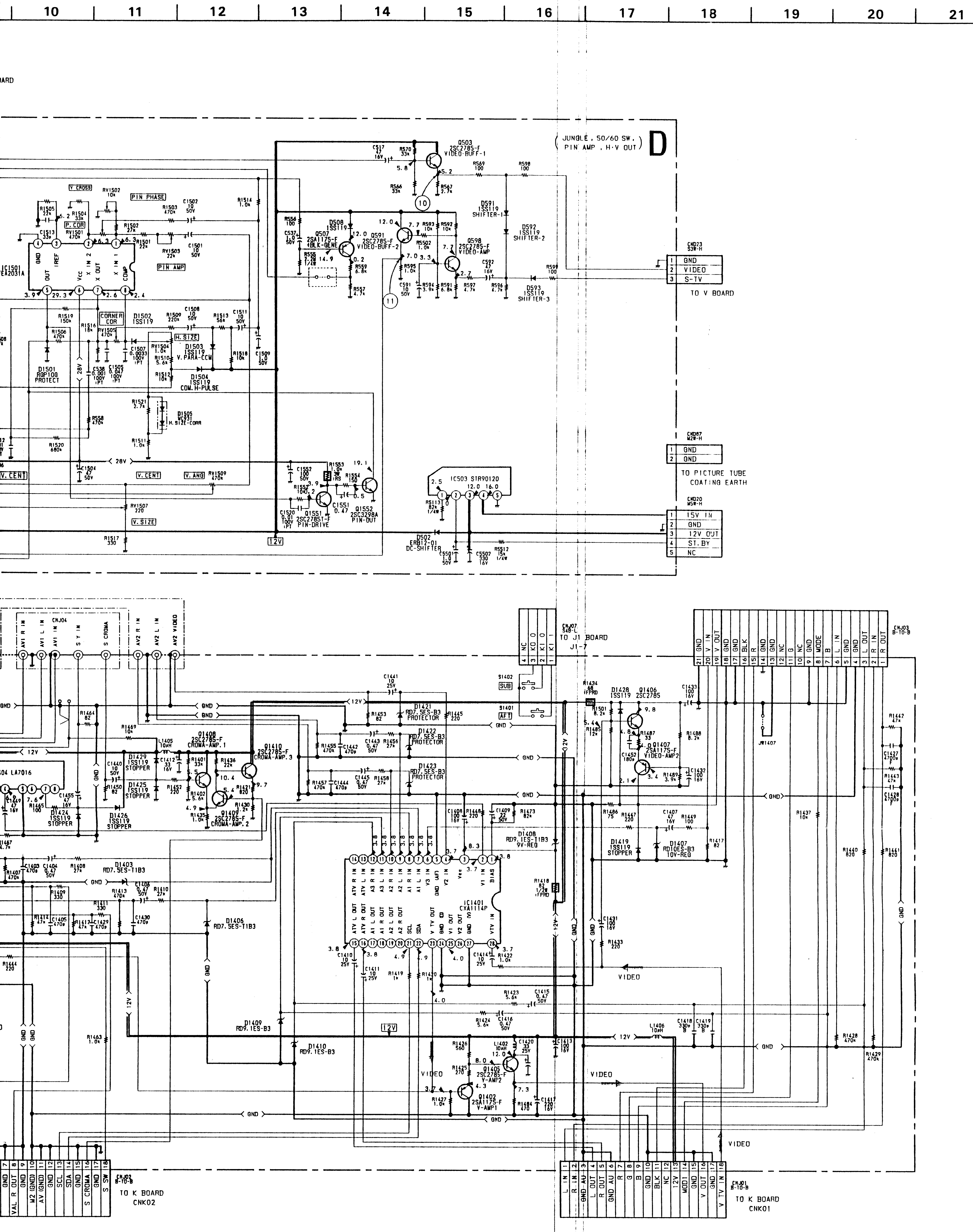
9
10
11
12
13
TO C BOARD C-81
CNK81 S3Y-H
H1
NC
H2
TO K BOARD K-9
CNK22 S12W-H
MAIN VIDEO
GND
50/60 Hz
SCP
HAFC
+BLK
PIX ABL
BRT ABL
H PULS
V PULS
GND
Q512 2SC2785-F P-CORRECT
Q501 2SA1175-F RON-AMP
Q515 2SC2785-F RON-AMP
D501 1SS119
H PHASE
IC501 TEA2028A
SAFETY IN
VIDEO IN
H-S/S
VIDEO IDENT
MUTING SYNC OUT
VCR
DI
GND
SUPER SND OUT
ABC OUT
VCO IN
VCO OUT
VCO 90
Q2
START & SAFE
L.W.CAP.
SAFETY & V-BLK IN
VD OUT
V-BLK OUT
V.RAMP GEN
GND
POWER SMPS OUT
Vcc
SMPS REG
HD OUT
SCP OUT
FBP IN
H. SAWTOOTH
I-REF
D511 BP08D
D504 BP08D
D512 BP08D
IC502 TDA8170
D513 RD4.7ES-B2 POW-PUP
D509 1SS119 V.LIN-CORR
Q505 2SD774-3 VCENT-1
Q506 2SB734-3 VCENT-2
D506 MC931 V.AMP-CORR
Q502 2SA1175-F CORR-SOURCE
Y CROSS
PIN PHASE
P.COR
IC1501 TEA2031A
GND
OUT
IREF
Vcc
X OUT
X IN 2
X IN 1
COMP
PIN AMP
CORNER COR
D1502 1SS119
H.SIZE
D1503 1SS119 V.PARA-CCM
D1501 RGP10B PROTECT
D1504 1SS119 COM.H-PULSE
D1505 MC931 H.SIZE-CORR
V.CENT
V.ANG
V.SIZE
28V
12V
29V
135V
200V
D1552 RGP10B SWITCHER
T802 FBT
NX-1613
D801 RGP10G COM-DIODE
D850 RGP15J COM-DIODE
D802 RGP10B COM-DIODE
VIDEO
ABL
D809 1SS119 +B-SHUNT
Q806 2SA1221 +B-SHUNT1
Q807 2SC2275 +B-SHUNT2
T805
L805 HLC
H CENT
CNK801 W5-H
D805 BP08D HCENT-1
D804 BP08D H-CENT2
D806 ERC06-15S CAMPER-1
D807 ERC06-15S DAMPER-2
D803 RGP01-17 COM-DIODE
Q805 2SC2688 HDRIVE
T801 H.D.T
Q804 2SD1941-07 H-OUT
D808 ERD29-08J PIN-MODU
T803
D1553 1SS119 SPEED-UP
Q1608 2SC2785-F PIC-ABL
Q1609 2SC2785-F BRT-ABL
Q1610 2SC2785-F ABL-AMP
Q1613 2SA1175-F FEED-BACK
D1550 PROTECTOR
TO F1 BOARD CNF05
CNK21 L3W-H
GND
GND
135V
TO C BOARD CNC82
CNK82 L3W-H
G2
200V
GND
TO DY
CNK83 M6W-H
H+
H+
H-
H-
V-
V+
CNJ06
L SP OUT
R SP OUT
CNJ05
R OUT
L OUT
MONITOR VIDEO OUT
CNJ04
AV1 R IN
AV1 L IN
AV1 IN
S Y IN
S CROMA
AV2 R IN
AV2 L IN
AV2 VIDEO
AUDIO L
AUDIO R
GND
IC1404 LA7016
D1427 1SS119 PROTECTOR
D1401 1SS119TD
D1429 1SS119 STOPPER
D1425 1SS119 STOPPER
D1424 1SS119 STOPPER
D1426 1SS119 STOPPER
Q1408 2SC2785-F CROMA-AMP.1
Q1410 2SC2785-F CROMA-AMP.3
Q1409 2SC2785-F CROMA-AMP.2
D1403 RD7.5ES-T1B3
D1406 RD7.5ES-T1B3
D1418 RD7.5ES-B3 PROTECTOR
Q1401 2SA1175-F VIDEO-AMP
D1409 RD9.1ES-B3
J1
(AV SW. VIDEO AMP)
TO K BOARD CNK02
CNJ02 B-10-B
L OUT (SP)
GND
R OUT (SP)
GND
GND
VAL L OUT
GND
VAL R OUT
GND
M2 (GND)
AV (GND)
GND
SCL
SDA
GND
S CROMA
GND
S SW
Q551 2SC2785 PIN-DRI


10
11
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19
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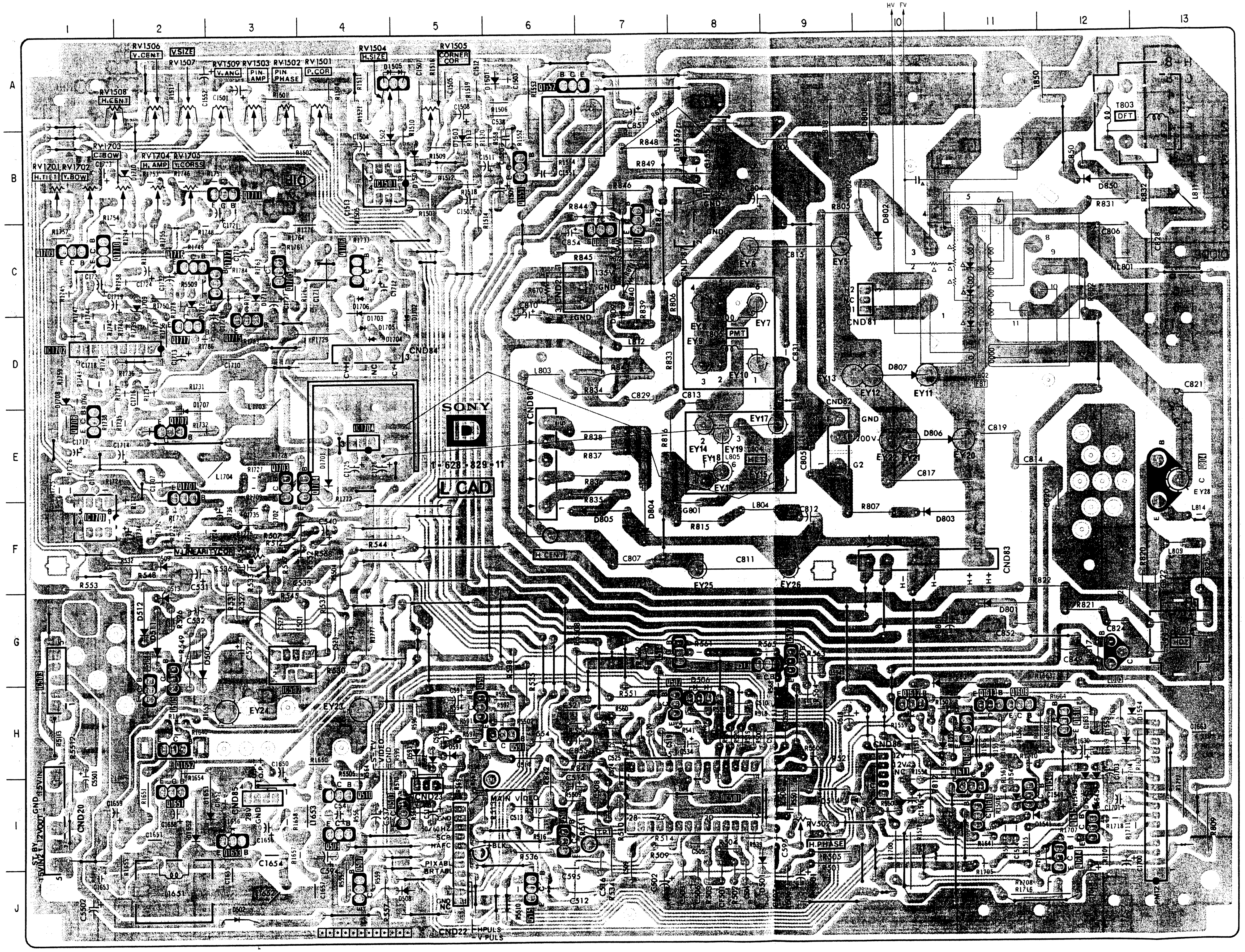
21
JUNGLE, 50/60 SW, PIN AMP, H·V OUT
D
Q503 2SC2785-F VIDEO-BUFF-1
Q507 2SA1175-F +BLK-GENE
Q591 2SC2785-F VIDEO-BUFF-2
Q598 2SC2785-F VIDEO-AMP
D508 1SS119
D591 1SS119 SHIFTER-1
D592 1SS119 SHIFTER-2
D593 1SS119 SHIFTER-3
CND23 S3W-H
GND
VIDEO
S-TV
TO V BOARD
IC1501 TEA2031A
Y CROSS
RV1502
PIN PHASE
P.COR
RV1501
PIN AMP
CORNER COR
H.SIZE
D1501 RGP100 PROTECT
D1502 1SS119
D1503 1SS119 V.PARA-CCM
D1504 1SS119 COM.H-PULSE
D1505 MC931 H.SIZE-CORR
V.CENT
V.ANG
RV1509
RV1507
V.SIZE
28V
Q1551 2SC2785T-F PIN-DRIVE
Q1552 2SC3298A PIN-OUT
12V
IC503 STR90120
D502 ERB12-01 DC-SHIFTER
CND87 M2W-H
GND
GND
TO PICTURE TUBE COATING EARTH
CND20 M5W-H
15V IN
GND
12V OUT
ST.BY
NC
CNJ04
AV1 R IN
AV1 L IN
AV1 IN
S Y IN
S CROMA
AV2 R IN
AV2 L IN
AV2 VIDEO
CNJ07 S4B-L
TO J1 BOARD J1-7
NC
KO
KI
S1402 SUB
S1401 AFT
IC1404 LA7016
Q1408 2SC2785-F CROMA-AMP.1
Q1410 2SC2785-F CROMA-AMP.3
Q1409 2SC2785-F CROMA-AMP.2
D1429 1SS119 STOPPER
D1425 1SS119 STOPPER
D1424 1SS119 STOPPER
D1426 1SS119 STOPPER
D1421 RD7.5ES-B3 PROTECTOR
D1422 RD7.5ES-B3 PROTECTOR
D1423 RD7.5ES-B3 PROTECTOR
D1403 RD7.5ES-T1B3
D1406 RD7.5ES-T1B3
D1408 RD9.1ES-T1B3 9V-REG
D1409 RD9.1ES-B3
D1410 RD9.1ES-B3
IC1401 CXA1114P
D1428 1SS119
Q1406 2SC2785
Q1407 2SA1175-F VIDEO-AMP2
D1419 1SS119 STOPPER
D1407 RD10ES-B3 10V-REG
JW1407
CNJ03 B-10-B
GND
V IN
V OUT
GND
BLK
R
GND
NC
G
GND
MODE
B
L IN
GND
L OUT
R IN
R OUT
VIDEO
Q1405 2SC2785-F V-AMP2
Q1402 2SA1175-F V-AMP1
L1406 10μH
CNJ02 B-10-B
TO K BOARD CNK02
GND
VAL R OUT
M2 (GND)
AV (GND)
SCL
SDA
S CROMA
GND
S SW
CNJ01 B-10-B
TO K BOARD CNK01
L IN
R IN
GND AU
L OUT
R OUT
GND AU
G
B
GND
BLK
NC
12V
MODI
GND
V OUT
V TV IN

5-9. PRINTED WIRING BOARDS (3) —conductor side—

—D Board—

[JUNGLE, 50/60 SW, PIN AMP, H•V OUT] **D** **D**


HV FV
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12
13
A
B
C
D
E
F
G
H
I
J
RV1506 V.CENT
V.SIZE
RV1507
RV1509 V.ANG
RV1503 PIN AMP
RV1502 PIN PHASE
RV1501 P.COR
RV1504 H.SIZE
RV1505 CORNER COR
RV1508 H.CENT
RV1703 C.BOW
RV1704 H.AMP
RV1705 V.CORSS
RV1701 H.TILT
RV1702 V.BOW
IC1501
T803 DFT
SONY
D
1-628-829-11
L CAD
H.CENT
PMT
H.PHASE
RV502
MAIN VIDEO
CND22
H.PULS
V.PULS
EY25
EY26
CND83
CND801
L803
C821
C819
C817
C814
D806
D807
D803
D805
D804
R807
R815
C807
C811
L804
C812
EY28
L814

IC	
IC501	I−8
IC502	G−3
IC503	G−1
IC1501	B−4

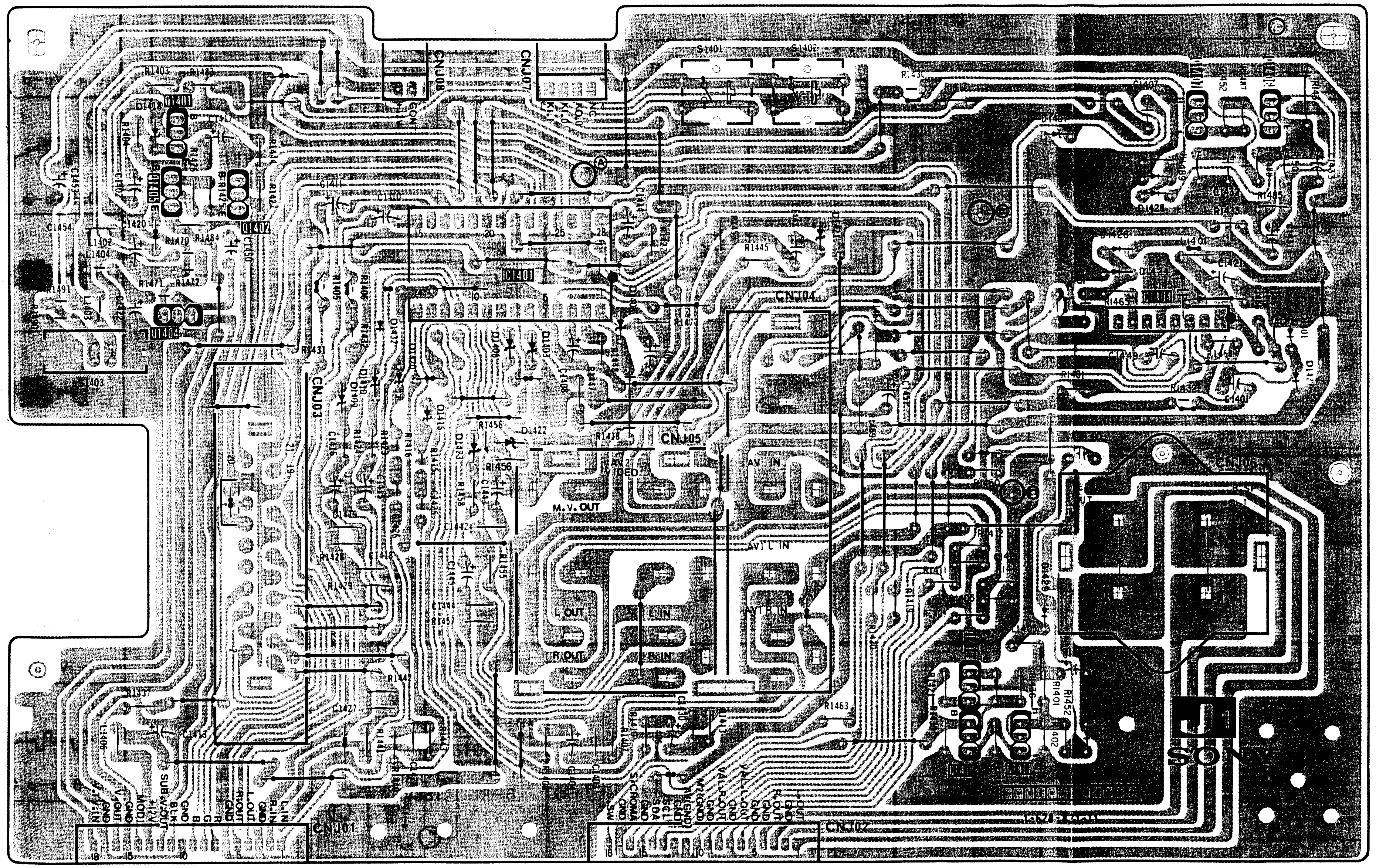
TRANSISTOR	
Q501	I−6
Q502	H−8
Q503	I−5
Q505	G−2
Q506	H−2
Q507	J−4
Q512	G−9
Q515	J−6
Q591	H−6
Q598	H−5
Q804	E−13
Q805	G−12
Q806	C−7
Q807	C−7
Q1551	B−6
Q1552	A−6
Q1608	H−11
Q1609	H−11
Q1610	H−12
Q1613	H−11

DIODE	
D501	I−8
D502	J−3
D504	G−2
D506	H−8
D508	J−5
D509	F−2
D511	G−2
D512	G−2
D513	G−2
D591	H−5
D592	H−5
D593	H−5
D801	G−11
D802	C−10
D803	F−10
D804	F−7
D805	F−7
D806	E−11
D807	D−10
D808	B−10
D809	D−7
D850	B−12
D1501	A−6
D1502	B−5
D1503	B−5
D1504	B−5
D1505	A−5
D1550	H−10
D1552	B−8
D1553	H−12

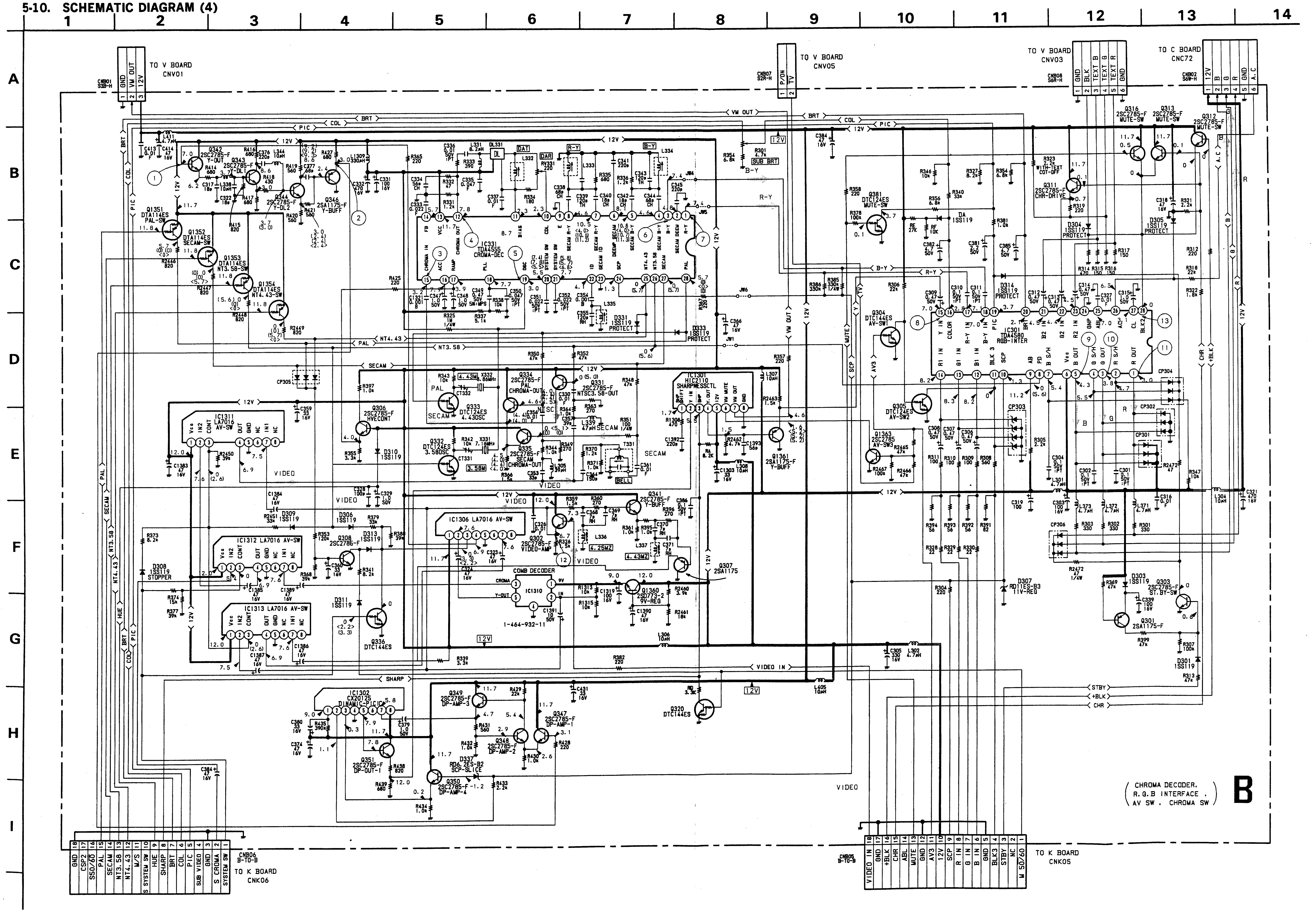
VARIABLE RESISTOR	
RV502	I−9
RV1501	A−4
RV1502	A−3
RV1503	A−3
RV1504	A−5
RV1505	A−5
RV1506	A−2
RV1507	A−2
RV1508	A−2
RV1509	A−3

[AV SW, VIDEO AMP] **J1** **J1**

—J1 Board—


S1401
S1402
CNJ07
CNJ06
CNJ04
CNJ05
CNJ03
CNJ01
CNJ02
IC1401
M.V. OUT
AV IN
AV L IN
L OUT
R OUT
J1
SONY

5-10. SCHEMATIC DIAGRAM (4)


1
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7
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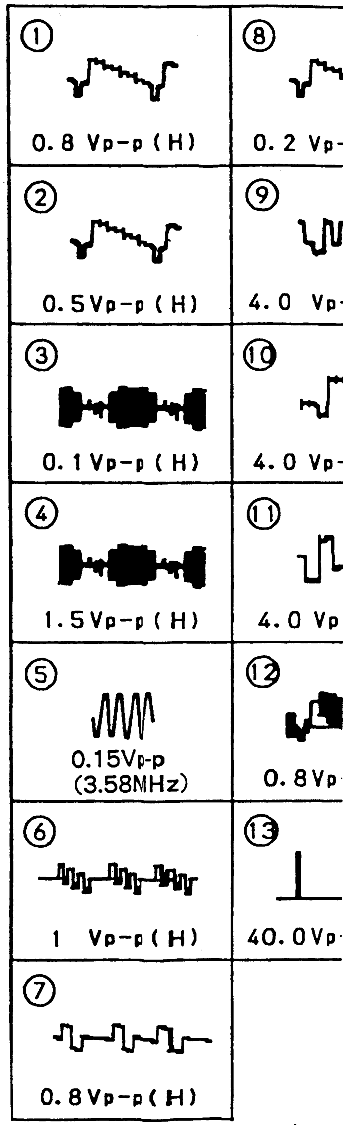
9
10
11
12
13
14
A
B
C
D
E
F
G
H
I
TO V BOARD CNV01
GND
VM OUT
12V
TO V BOARD CNV05
P/ON
TV
TO V BOARD CNV03
GND
BLK
TEXT B
TEXT G
TEXT R
GND
TO C BOARD CNC72
12V
B
G
R
GND
A.C
IC331 TDA4555 CROMA-DEC
IC1301 HIC2110 SHARPNESSCTL
IC301 TDA4580 RGB-INTER
IC1311 LA7016 AV-SW
IC1312 LA7016 AV-SW
IC1313 LA7016 AV-SW
IC1306 LA7016 AV-SW
IC1302 CX20125 DINAMIC-PIC
IC1310
COMB DECODER
1-464-932-11
Q342 2SC2785-F Y-OUT
Q343 2SC2785-F Y-DL
Q344 2SC2785-F Y-DL2
Q346 2SA1175-F Y-BUFF
Q1351 DTA114ES PAL-SW
Q1352 DTA114ES SECAM-SW
Q1353 DTA114ES NT3.58-SW
Q1354 DTA114ES NT4.43-SW
Q381 DTC124ES MUTE-SW
Q316 2SC2785-F MUTE-SW
Q313 2SC2785-F MUTE-SW
Q312 2SC2785-F MUTE-SW
Q311 2SC2785-F CHR-DRIVE
Q304 DTC144ES AV-SW1
Q305 DTC144ES AV-SW2
Q1363 2SC2785 AV-SW3
Q334 2SC2785-F PAL CHROMA-OUT
Q331 2SC2785-F NTSC3.58-OUT
Q333 DTC124ES 4.43OSC
Q332 DTC124ES 3.58OSC
Q335 2SC2785-F SECAM CHROMA-OUT
Q306 2SC2785-F HVECONT
Q1361 2SA1175-F Y-BUFF
Q341 2SC2785-F Y-BUFF
Q302 2SC2785-F VIDEO-AMP
Q307 2SA1175
Q1360 2SD773-2 9V-REG
Q308 2SC2785-F
Q336 DTC144ES
Q303 2SC2785-F ST.BY-SW
Q301 2SA1175-F
Q320 DTC144ES
Q349 2SC2785-F DP-AMP-3
Q347 2SC2785-F DP-AMP-1
Q348 2SC2785-F DP-AMP-2
Q351 2SC2785-F DP-OUT-1
Q350 2SC2785-F DP-AMP-4
D337 RD6.2ES-B2 SCP-SLICE
D307 RD11ES-B3 11V-REG
D308 1SS119 STOPPER
D304 1SS119 PROTECT
D305 1SS119 PROTECT
D314 1SS119 PROTECT
D331 1SS119 PROTECT
D333 1SS119 PROTECT
CP302
CP303
CP304
CP305
CP306
CP301
VM OUT
BRT
COL
PIC
12V
SUB BRT
B-Y
R-Y
PAL
NT4.43
NT3.58
SECAM
VIDEO
VIDEO IN
SHARP
STBY
+BLK
CHR
4.43M
3.58M
4.25MZ
4.43MZ
BELL
DAT
DAR
CNB06 B-TO-B
GND
CSP2
SS0/60
PAL
SECAM
NT3.58
NT4.43
M/S
S SYSTEM SW
HUE
SHARP
BRT
COL
PIC
SUB VIDEO
GND
S CROMA
S VIDEO
TO K BOARD CNK06
CNB05 B-TO-B
VIDEO IN
GND
+BLK
CHR
ABL
MUTE
GND
AV3
12V
SCP
R IN
G IN
B IN
GND
BLK3
STBY
NC
M 50/60
TO K BOARD CNK05
CHROMA DECODER, R.G.B INTERFACE, AV SW, CHROMA SW
B

● B BOARD WAVEFORM

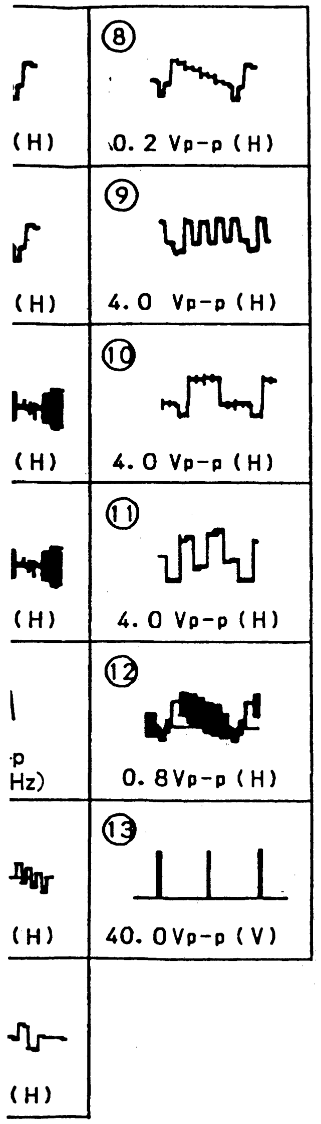


[CHROMA DECODER, R•G•B INTEREFACE, AV SW, CHROMA SW.] **B**

5-11. PRINTED WIRING BOARDS (4)

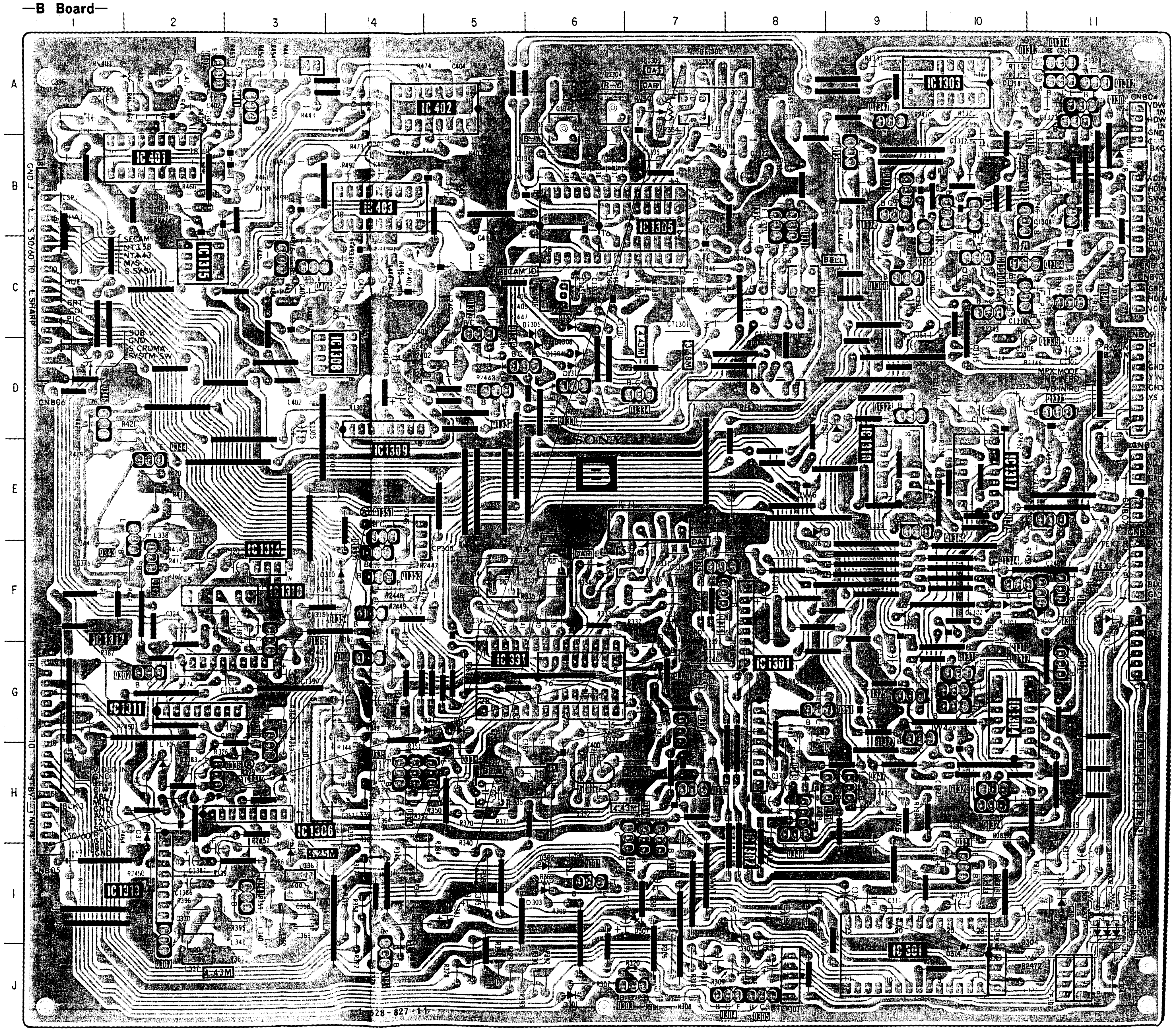
—conductor side—

WAVEFORM


(H)
⑧
0.2 Vp-p (H)
(H)
⑨
4.0 Vp-p (H)
(H)
⑩
4.0 Vp-p (H)
(H)
⑪
4.0 Vp-p (H)
p
Hz)
⑫
0.8Vp-p (H)
(H)
⑬
40.0Vp-p (V)
(H)

IC	
IC301	J-9
IC331	G-5
IC1301	G-8
IC1302	H-8
IC1306	H-3
IC1310	F-3
IC1311	G-2
IC1312	F-1
IC1313	I-2
TRANSISTOR	
Q301	I-6
Q302	G-2
Q303	J-6
Q304	J-7
Q305	J-8
Q306	G-4
Q307	J-2
Q308	G-3
Q311	I-10
Q312	I-6
Q313	I-7
Q316	H-7
Q320	G-7
Q331	H-5
Q332	G-7
Q333	H-7
Q334	H-4
Q335	H-4
Q336	H-2
Q341	I-3
Q342	F-2
Q343	F-1
Q344	E-2
Q345	F-1
Q346	D-1
Q347	H-9
Q348	H-8
Q349	H-8
Q350	H-8
Q351	G-8
Q381	J-4
Q1351	F-4
Q1352	F-4
Q1353	F-4
Q1354	F-4
Q1360	G-4
Q1361	F-8
Q1363	F-7
DIODE	
D301	J-6
D302	I-6
D303	I-6
D304	F-11
D305	I-11
D306	H-3
D307	I-6
D308	H-2
D309	I-3
D310	F-4
D311	H-2
D313	H-2
D314	I-10
D331	G-4
D333	G-5
D337	H-8
VARIABLE RESISTOR	
RV301	A-7
RV331	F-6

—B Board—


1
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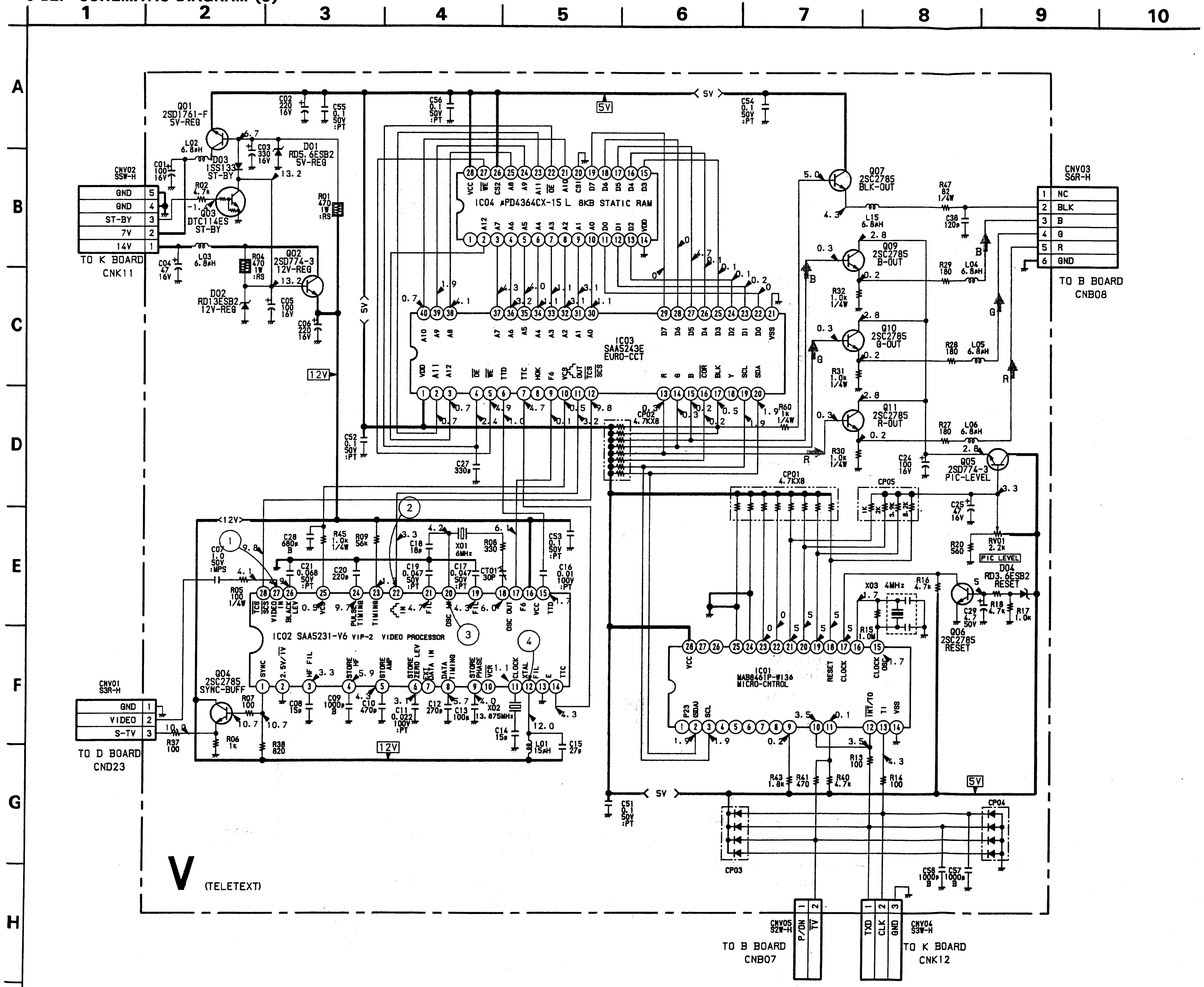
9
10
11
A
B
C
D
E
F
G
H
I
J
IC 402
IC 401
IC 403
IC 1305
IC 1303
IC 1315
IC 1308
IC 1309
IC 1310
IC 1312
IC 1311
IC 331
IC 1301
IC 1306
IC 1313
IC 301
SECAM
BELL
SONY
CNB06
4.43M
1-628-827-11

5-12. SCHEMATIC DIAGRAM (5)


1
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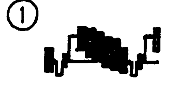
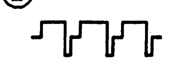
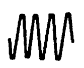
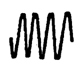
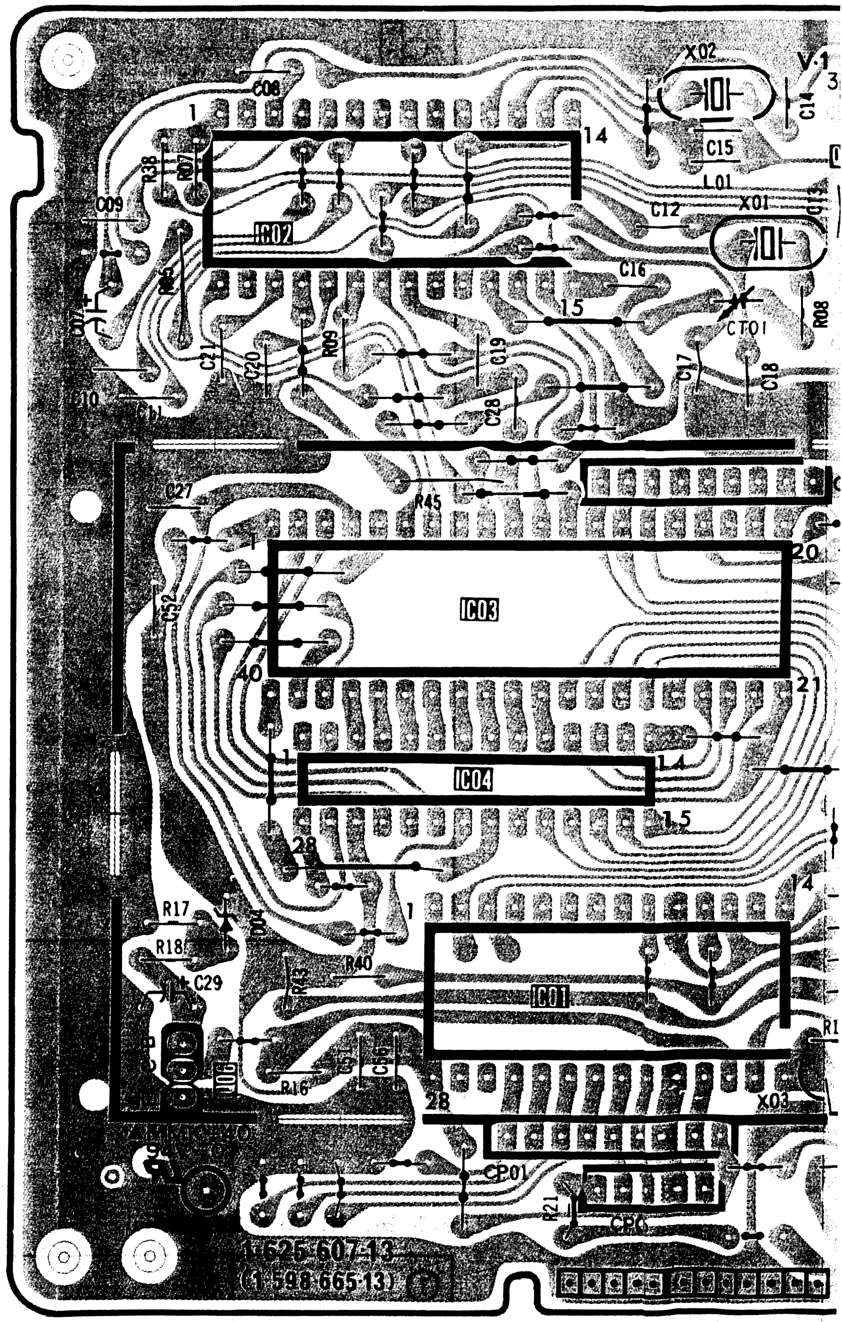
9
10
A
B
C
D
E
F
G
H
CNV02 S5W-H
GND
GND
ST-BY
7V
14V
TO K BOARD CNK11
Q01 2SD1761-F 5V-REG
D01 RD5.6ESB2 5V-REG
D03 1SS133 ST-BY
Q03 DTC114ES ST-BY
Q02 2SD774-3 12V-REG
D02 RD13ESB2 12V-REG
IC04 μPD4364CX-15 L 8KB STATIC RAM
IC03 SAA5243E EURO-CCT
5V
12V
Q07 2SC2785 BLK-OUT
Q09 2SC2785 B-OUT
Q10 2SC2785 G-OUT
Q11 2SC2785 R-OUT
Q05 2SD774-3 PIC-LEVEL
CNV03 S6R-H
NC
BLK
B
G
R
GND
TO B BOARD CNB08
CP01 4.7KX8
CP05
RV01 2.2k PIC LEVEL
D04 RD3.6ESB2 RESET
Q06 2SC2785 RESET
X03 4MHz
IC02 SAA5231-V6 VIP-2 VIDEO PROCESSOR
X01 6MHz
IC01 MAB8461P-W136 MICRO-CNTROL
Q04 2SC2785 SYNC-BUFF
CNV01 S3R-H
GND
VIDEO
S-TV
TO D BOARD CND23
CP03
CP04
V (TELETEXT)
CNV05 S2W-H
P/ON
TV
TO B BOARD CNB07
CNV04 S3W-H
TXD
CLK
GND
TO K BOARD CNK12

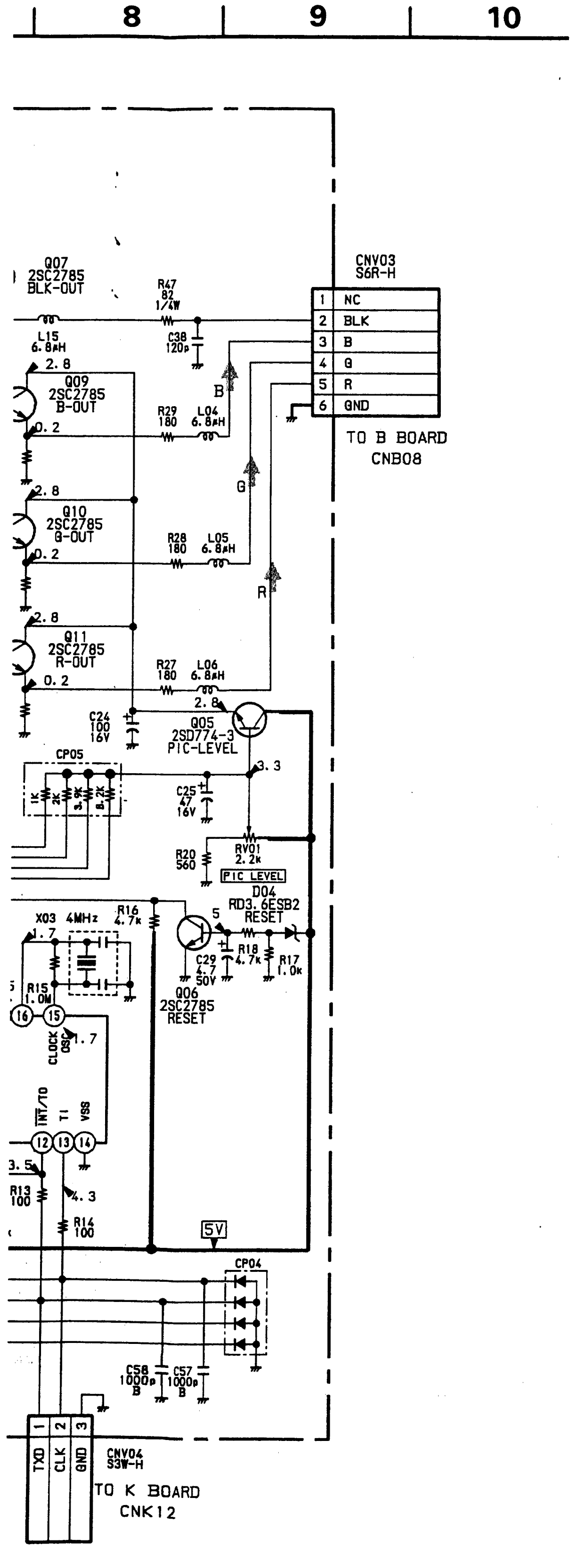
● V BOARD WAVEFORM

①	②	③	④
			
1.8 Vp-p (H)	4.8 Vp-p (V)	0.4 Vp-p (5.5MHz)	0.65 Vp-p (10MHz)

5-13. PRINTED WIRING BOARDS (5) —conductor side—

—V Board—

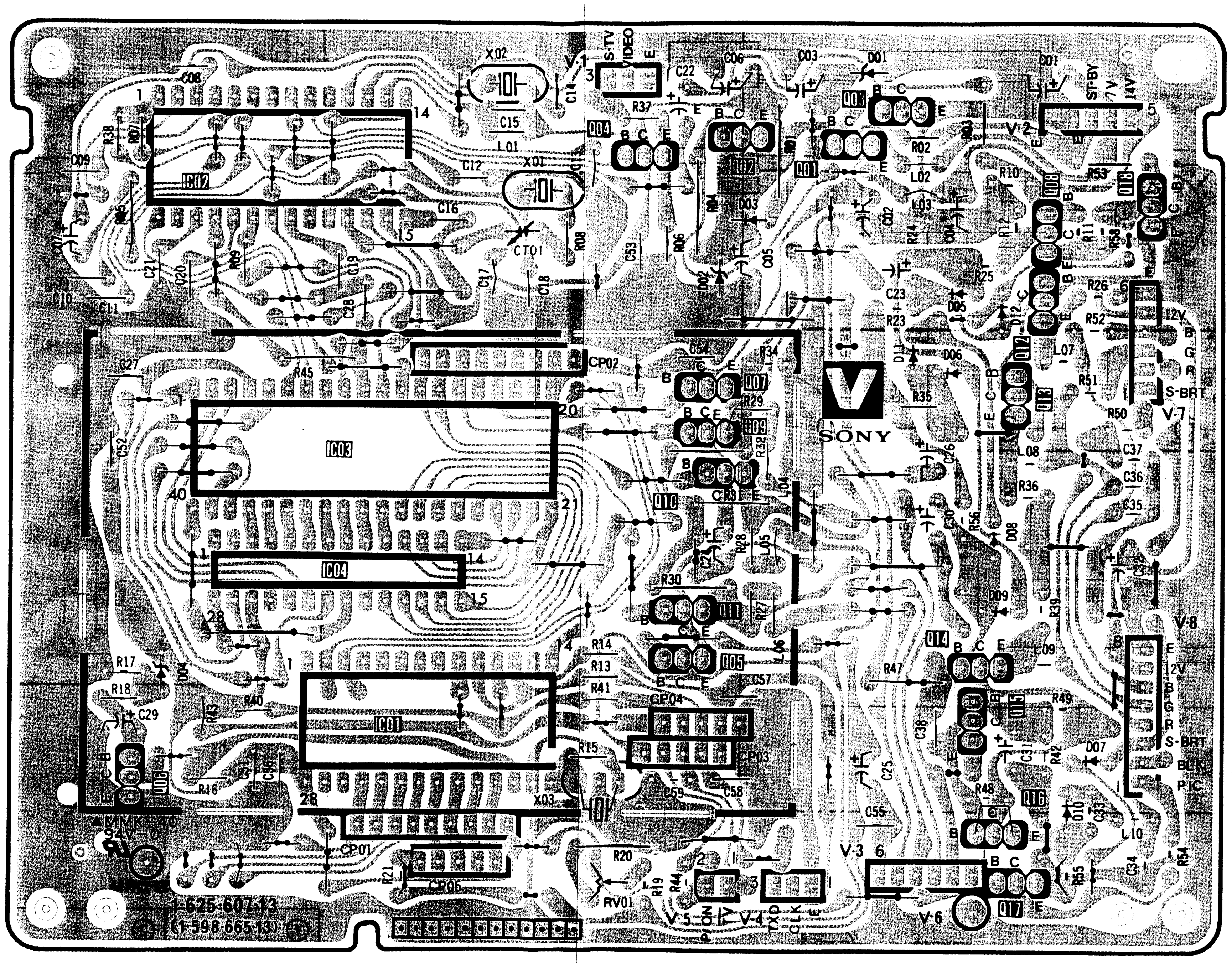

X02
C14
C15
C08
L01
X01
C12
C16
C09
IR02
CT01
R08
C21
R09
C19
C28
C17
C18
C27
R45
IC03
C52
20
21
40
1
IC04
14
15
28
R17
R18
C29
R40
IC01
R16
X03
CP01
CPC
1-625-607-13
(1-598-665-13)


8
9
10
Q07 2SC2785 BLK-OUT
R47 82 1/4W
CNV03 S6R-H
1 NC
2 BLK
3 B
4 G
5 R
6 GND
TO B BOARD CNB08
L15 6.8μH
C38 120p
Q09 2SC2785 B-OUT
R29 180
L04 6.8μH
Q10 2SC2785 G-OUT
R28 180
L05 6.8μH
Q11 2SC2785 R-OUT
R27 180
L06 6.8μH
C24 100 16V
Q05 2SD774-3 PIC-LEVEL
CP05
C25 47 16V
R20 560
RV01 2.2k
PIC LEVEL
D04 RD3.6ESB2 RESET
X03 4MHz
R16 4.7k
R15 1.0M
C29 4.7 50V
R18 4.7k
R17 1.0k
Q06 2SC2785 RESET
CLOCK OSC
INT/TD
T1
VSS
R13 100
R14 100
5V
CP04
C58 1000p B
C57 1000p B
CNV04 S3V-H
TXD
CLK
GND
TO K BOARD CNK12

[TELETEX] **V** **V**

5-13. PRINTED WIRING BOARDS (5) —conductor side—

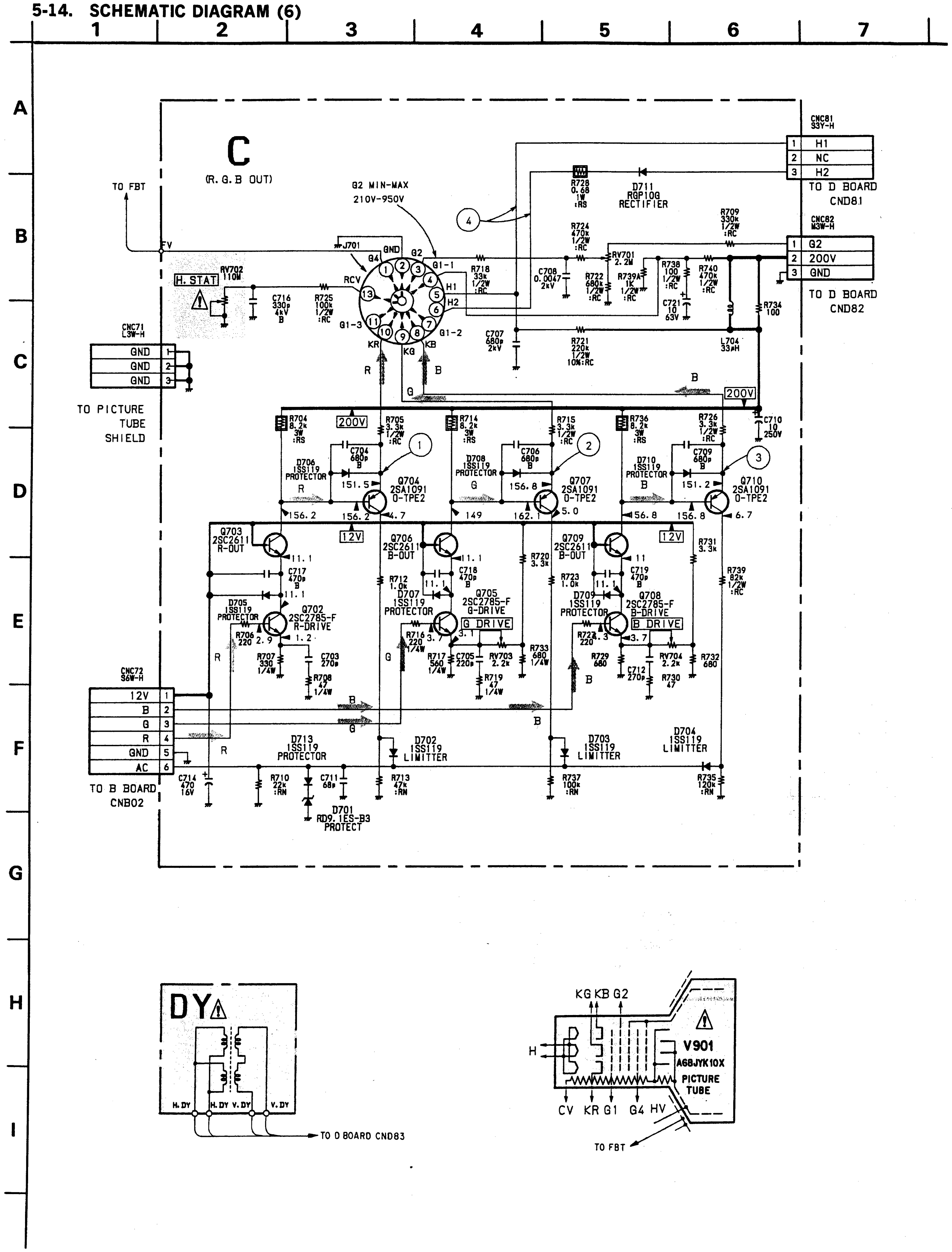
—V Board—


X02
V-1
S-TV
VIDEO
E
C22
C06
C03
D01
C01
ST-BY
7V
14V
V-2
5
C08
IC02
C14
C15
R37
Q04
Q03
Q02
Q01
C12
X01
L01
C16
CT01
C17
C18
C53
R08
D03
D02
R53
R10
Q08
Q15
C23
R23
D05
R26
R52
12V
B
G
R
S-BRT
V-7
IC03
CP02
C54
R34
Q07
R29
Q09
R45
C27
C52
SONY
R35
D06
L07
Q12
Q13
R51
R50
L08
C37
C36
C35
R36
IC04
Q10
R30
R28
L05
D08
D09
R39
V-8
Q11
R27
Q05
R14
R13
R41
L06
Q14
L09
CP04
C57
R47
R49
IC01
CP03
R15
C59
C58
C25
C55
R48
Q16
D07
D10
L10
BLK
PIC
X03
R17
R18
C29
D04
R43
R40
R16
Q06
CP01
CP06
R21
R20
RV01
R19
R44
V-5
PIC ON
V-4
TXD
CLK
V-3
6
V-6
Q17
R55
R54
C34
MMK-40
94V-0
1-625-607-13
(1-598-665-13)

C

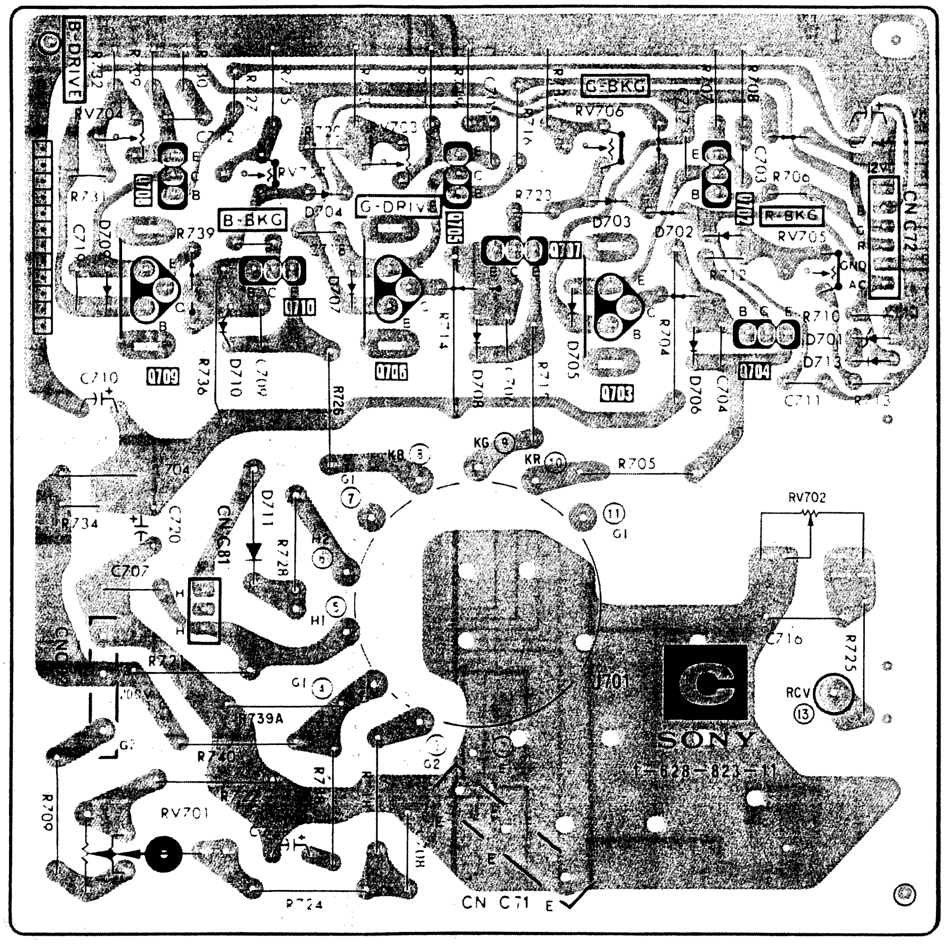
[R·G·B OUT]

5-14. SCHEMATIC DIAGRAM (6)

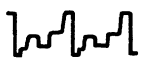
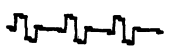
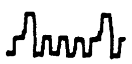
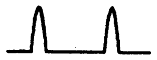

1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
C
(R. G. B OUT)
TO FBT
G2 MIN-MAX
210V-950V
CNC81
S3Y-H
H1
NC
H2
TO D BOARD
CND81
CNC82
M3W-H
G2
200V
GND
TO D BOARD
CND82
D711
RGP10G
RECTIFIER
R728
0.68
1W
:RS
R724
470k
1/2W
:RC
R709
330k
1/2W
:RC
RV701
2.2M
R718
33k
1/2W
:RC
C708
0.0047
2kV
R722
680k
1/2W
:RC
R739A
1k
1/2W
:RC
R738
100
1/2W
:RC
R740
470k
1/2W
:RC
C721
10
63V
R734
100
H. STAT
RV702
110M
C716
330p
4kV
B
R725
100k
1/2W
:RC
RCV
J701
GND
G4
G1-1
G1-2
G1-3
H1
H2
KR
KG
KB
C707
680p
2kV
R721
220k
1/2W
10M:RC
L704
33μH
CNC71
L3W-H
GND
GND
GND
TO PICTURE
TUBE
SHIELD
200V
R704
8.2k
3W
:RS
R705
3.3k
1/2W
:RC
C704
680p
B
D706
1SS119
PROTECTOR
Q704
2SA1091
O-TPE2
R714
8.2k
3W
:RS
R715
3.3k
1/2W
:RC
C706
680p
B
D708
1SS119
PROTECTOR
Q707
2SA1091
O-TPE2
R736
8.2k
3W
:RS
R726
3.3k
1/2W
:RC
C709
680p
B
D710
1SS119
PROTECTOR
Q710
2SA1091
O-TPE2
C710
10
250V
151.5
156.2
156.2
4.7
156.8
149
162.1
5.0
151.2
156.8
156.8
6.7
Q703
2SC2611
R-OUT
12V
Q706
2SC2611
B-OUT
Q709
2SC2611
B-OUT
12V
C717
470p
B
11.1
R712
1.0k
C718
470p
B
D707
1SS119
PROTECTOR
Q705
2SC2785-F
G-DRIVE
G DRIVE
R720
3.3k
R723
1.0k
C719
470p
B
D709
1SS119
PROTECTOR
Q708
2SC2785-F
B-DRIVE
B DRIVE
R731
3.3k
R739
82k
1/2W
:RC
D705
1SS119
PROTECTOR
Q702
2SC2785-F
R-DRIVE
R706
220
2.9
1.2
R707
330
1/4W
C703
270p
R708
47
1/4W
R716
220
1/4W
3.7
R717
560
1/4W
C705
220p
RV703
2.2k
R719
47
1/4W
R733
680
1/4W
R727
220
3.7
R729
680
C712
270p
RV704
2.2k
R730
47
R732
680
CNC72
S6W-H
12V
B
G
R
GND
AC
TO B BOARD
CNB02
D713
1SS119
PROTECTOR
D702
1SS119
LIMITTER
D703
1SS119
LIMITTER
D704
1SS119
LIMITTER
C714
470
16V
R710
22k
:RN
C711
68p
D701
RD9.1ES-B3
PROTECT
R713
47k
:RN
R737
100k
:RN
R735
120k
:RN
DY
H. DY
H. DY
V. DY
V. DY
TO D BOARD CND83
KG KB G2
H
V901
A68JYK10X
PICTURE
TUBE
CV
KR
G1
G4
HV
TO FBT

5-15. PRINTED WIRING BOARD (6) —conductor side—

—C Board—

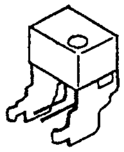

B-DRIVE
RV704
G-BKG
RV706
B-BKG
G-DRIVE
R-BKG
RV705
CNC72
RV703
R739
C710
D709
D710
D707
D706
D708
D703
D702
D701
D713
C711
R705
RV702
R734
C707
CNC81
D711
R728
R721
R739A
R740
R709
RV701
R724
C716
R725
RCV
SONY
1-628-823-11
CN C71
KB
KG
KR
G1
H1
G2

● C BOARD WAVEFORM

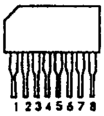
①	②	③	④
			
100 Vp-p (H)	95 Vp-p (H)	90 Vp-p (H)	24 Vp-p (H)

5-16. SEMICONDUCTORS

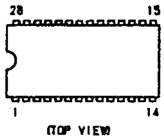
BX1387



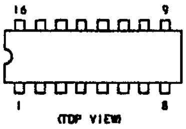
CX20125
LA7016



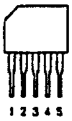
CXA1114P
MAB8461P-W136
SAA5231
SAB3035
TDA4555-V8
TDA4580
TDA6200
TDA6600
TEA2028A
μPD4364CX


28
15
1
14
(TOP VIEW)

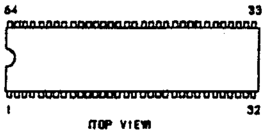
HD14052
PCF8574


16
9
1
8
(TOP VIEW)

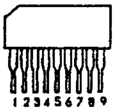
LM1875T
STR90120



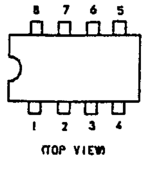
M37100M8-612SP


64
33
1
32
(TOP VIEW)

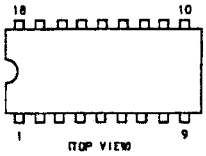
STR-S5941



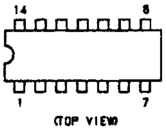
PCD8582
TBA129
TEA2031A


8 7 6 5
1 2 3 4
(TOP VIEW)

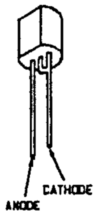
TDA2595-V7


18
10
1
9
(TOP VIEW)

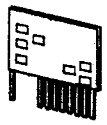
μPC324C


14
8
1
7
(TOP VIEW)

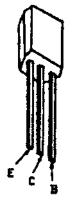
μPC574J


ANODE
CATHODE

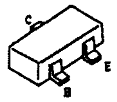
TDA8170



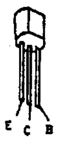
DTA114ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



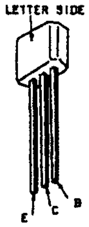
DTC124EK
2SA812



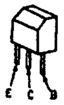
2SA1091



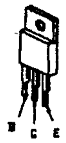
2SA1175
2SC2785


LETTER SIDE
E C B

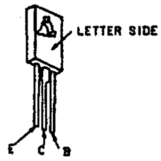
2SA1221
2SB734
2SD773
2SD774



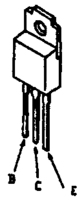
2SC2275
2SC3317



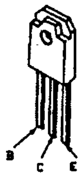
2SC2611
2SC2688


LETTER SIDE
E C B

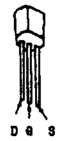
2SD1761



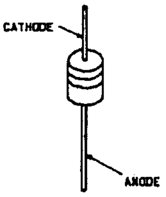
2SD1941



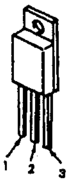
2SK105A



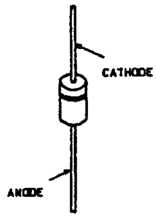
1SS119
RD3.9ES-B1
RD4.7ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD7.5ES-B3
RD9.1ES-B3
RD10ES-B3
RD11ES-B3


CATHODE
ANODE

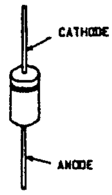
TCU-125



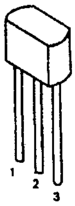
ERC06-15S
ERD29-08J
R2M
RH-1
R2KL
RU-3AM
RU-4Z-K2


CATHODE
ANODE

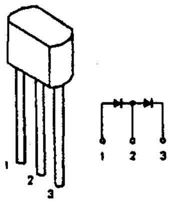
EU2Z-V1
GP08DPKG23
RGP10GPKG23
RGP15JPKG23


CATHODE
ANODE

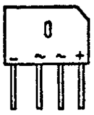
MC921



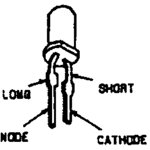
MC931



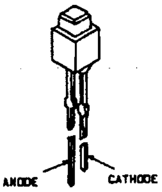
KBU4JL-6088



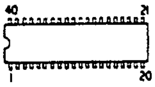
TLR124


LONG
SHORT
ANODE
CATHODE

5P4M


ANODE
CATHODE

SAA5243E



(Top view)

SECTION 6
EXPLODED VIEWS

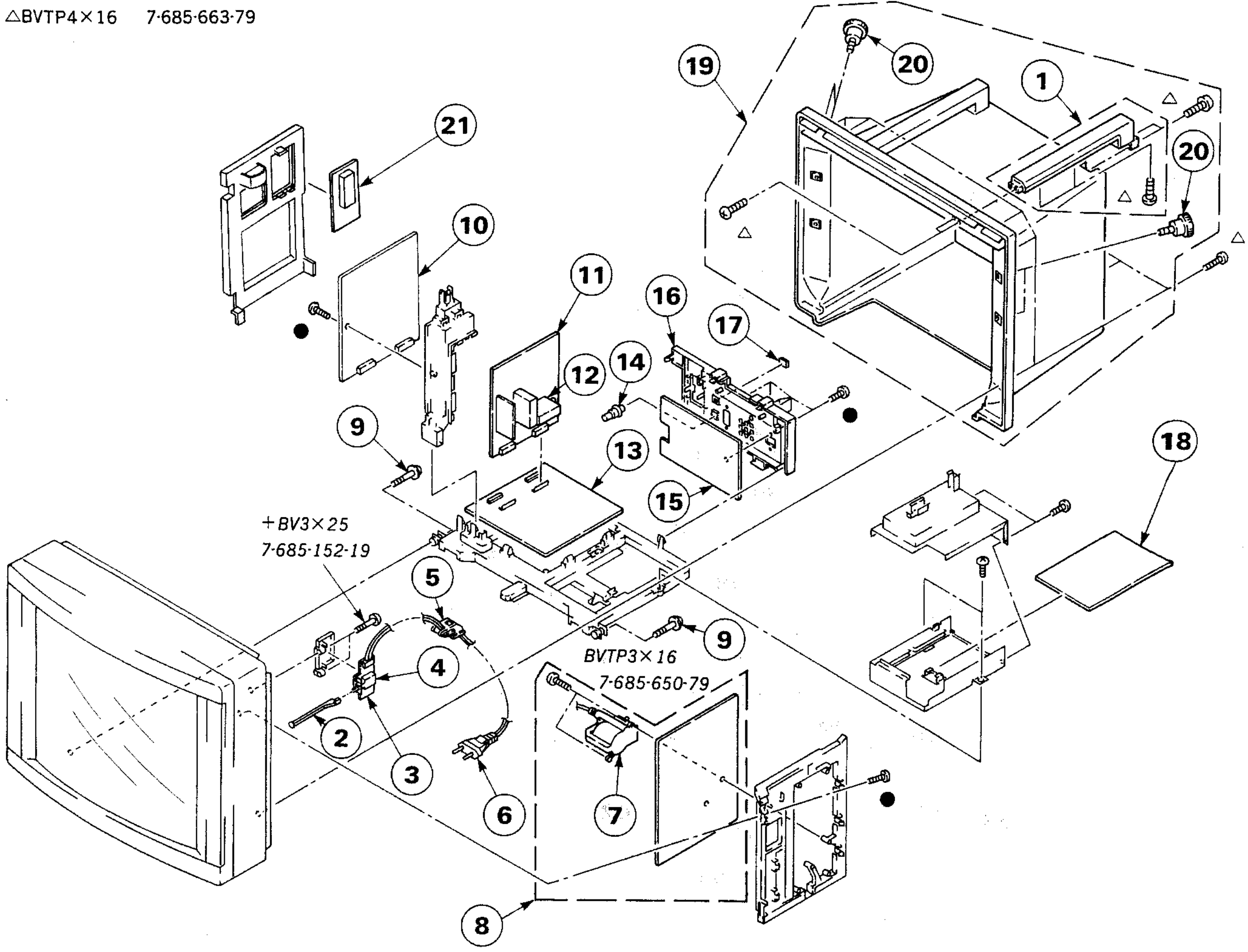
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

1. CHASSIS

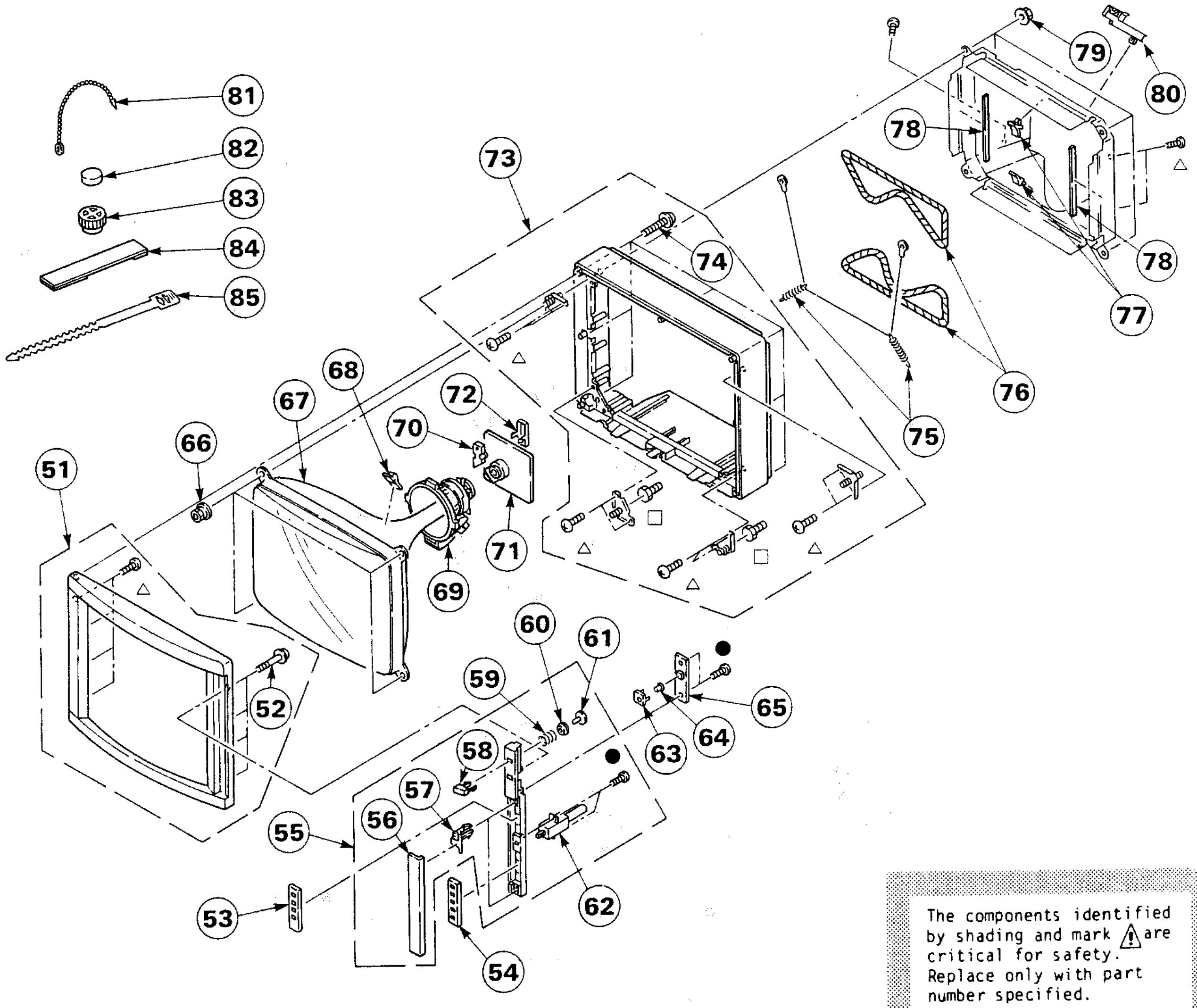
●BVTP3×12 7-685-648-79
△BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4390-706-1	HANDLE ASSY	
2	4-392-405-01	ROD, PUSH	
3	*1-628-825-11	F2 BOARD	
4	⚠ 1-571-433-11	SWITCH, PUSH (AC POWER)	
5	⚠ 4-389-778-01	HOLDER, AC CORD	
6	⚠ 1-574-380-11	CORD, POWER (WITH CONNECTOR)	
7	⚠ 1-439-418-31	TRANSFORMER ASSY, FLYBACK	
8	*A-1345-814-A	D BOARD, COMPLETE	7
9	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
10	*A-1135-534-A	B BOARD, COMPLETE	
11	*A-1296-521-A	A BOARD, COMPLETE	
12	⚠ 1-465-109-11	TUNER, ET (UV-618)	
13	*A-1385-049-A	K BOARD, COMPLETE	
14	⚠ 1-563-204-13	SOCKET, ANTENNA (PAL/SECAM)	
15	*A-1388-083-A	J1 BOARD, COMPLETE	
16	4-392-411-01	BRACKET, J	
17	4-392-418-01	SHEET, BLIND	
18	*A-1245-447-A	F1 BOARD, COMPLETE	
19	X-4392-404-1	COVER ASSY, REAR	1,20
20	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
21	*A-1347-036-A	V BOARD, COMPLETE	

2. PICTURE TUBE

●BVTP3×12 7-685-648-79
△BVTP4×16 7-685-663-79
□BOLT, HEXAGON 5×20 7-683-340-07



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4392-406-2	BEZEL ASSY	52
52	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
53	1-466-097-11	PANEL BLOCK	
54	1-466-096-11	PANEL BLOCK	
55	X-4392-402-1	BRACKET ASSY, H	56-62
56	X-4392-407-1	DOOR ASSY, CONTROL	
57	4-350-201-00	SHAFT, DOOR	
58	4-391-709-01	BUTTON, POWER	
59	4-374-257-01	SPRING, COMPRESSION	
60	4-385-404-01	CUSHION, SPRING	
61	4-370-505-01	STOPPER, BUTTON, HIT TERMINAL	
62	4-391-701-01	DAMPER	
63	*4-388-955-01	BRACKET (B), LIGHT GUIDE	
64	*4-374-987-01	GUIDE, LIGHT	
65	*1-628-824-11	H3 BOARD	
66	4-376-980-01	NUT, SPECIAL, CRT	
67	⚠.8-733-821-05	PICTURE TUBE (A68JYK10X)	
68	3-703-961-01	SPACER, DY	
69	⚠.1-451-313-12	DEFLECTION YOKE (SY-191)	
70	*4-379-167-01	COVER (MAIN), CV	
71	*A-1330-914-A	C BOARD, COMPLETE	
72	*4-379-160-01	COVER (REAR LID), CV	
73	X-4391-703-3	CABINET ASSY	74
74	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
75	4-369-318-00	SPRING, TENSION	
76	⚠.1-426-408-11	COIL, DEMAGNETIZATION	
77	*4-371-629-01	STOPPER, WIRE	
78	*4-915-938-01	CUSHION (D)	
79	4-306-034-00	FLANGE NUT,(B) 5MM	
80	*4-387-216-01	HOLDER, LEAD	
81	4-308-870-00	CLIP, LEAD WIRE	
82	1-452-032-00	MAGNET, DISK; 10MM ϕ	
83	1-452-094-00	MAGNET, ROTATABLE DISK; 10MM ϕ	
84	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
85	3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1135-534-A	B BOARD, COMPLETE *****************			

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C301	1-136-165-00	MYLAR	0.1MF	10%	50V
C302	1-136-165-00	MYLAR	0.1MF	10%	50V
C303	1-126-101-11	ELECT	100MF	20%	16V
C304	1-136-165-00	MYLAR	0.1MF	10%	50V
C305	1-124-119-00	ELECT	330MF	20%	16V
C306	1-124-902-00	ELECT	0.47MF	20%	50V
C307	1-124-902-00	ELECT	0.47MF	20%	50V
C308	1-124-902-00	ELECT	0.47MF	20%	50V
C309	1-124-902-00	ELECT	0.47MF	20%	50V
C310	1-136-165-00	MYLAR	0.1MF	10%	50V
C311	1-136-165-00	MYLAR	0.1MF	10%	50V
C312	1-124-902-00	ELECT	0.47MF	20%	50V
C313	1-124-902-00	ELECT	0.47MF	20%	50V
C314	1-124-902-00	ELECT	0.47MF	20%	50V
C315	1-124-499-11	ELECT	1MF	20%	50V
C316	1-101-004-00	CERAMIC	0.01MF		50V
C317	1-102-953-00	CERAMIC	18PF	5%	50V
C318	1-124-477-11	ELECT	47MF	20%	16V
C319	1-126-101-11	ELECT	100MF	20%	16V
C321	1-126-103-11	ELECT	470MF	20%	16V
C322	1-102-953-00	CERAMIC	18PF	5%	50V
C323	1-124-477-11	ELECT	47MF	20%	16V
C324	1-124-477-11	ELECT	47MF	20%	16V
C326	1-101-004-00	CERAMIC	0.01MF		50V
C327	1-101-004-00	CERAMIC	0.01MF		50V
C328	1-102-973-00	CERAMIC	100PF	5%	50V
C329	1-124-499-11	ELECT	1MF	20%	50V
C330	1-101-004-00	CERAMIC	0.01MF		50V
C331	1-126-101-11	ELECT	100MF	20%	16V
C332	1-124-360-00	ELECT	1000MF	20%	16V
C333	1-101-005-00	CERAMIC	0.022MF		50V
C334	1-101-884-00	CERAMIC	56PF	5%	50V
C335	1-101-006-00	CERAMIC	0.047MF		50V
C336	1-136-153-00	MYLAR	0.01MF	10%	50V
C337	1-101-004-00	CERAMIC	0.01MF		50V
C338	1-101-888-00	CERAMIC	68PF	5%	50V
C339	1-102-816-00	CERAMIC	120PF	5%	50V
C340	1-102-953-00	CERAMIC	18PF	5%	50V
C341	1-102-978-00	CERAMIC	220PF	5%	50V
C342	1-102-953-00	CERAMIC	18PF	5%	50V
C343	1-102-816-00	CERAMIC	120PF	5%	50V
C344	1-101-888-00	CERAMIC	68PF	5%	50V
C345	1-102-978-00	CERAMIC	220PF	5%	50V
C347	1-124-499-11	ELECT	1MF	20%	50V
C348	1-124-499-11	ELECT	1MF	20%	50V
C349	1-136-173-00	FILM	0.47MF	5%	50V
C350	1-136-161-00	MYLAR	0.047MF	10%	50V
C351	1-136-157-00	MYLAR	0.022MF	10%	50V
C352	1-136-157-00	MYLAR	0.022MF	10%	50V
C353	1-102-963-00	CERAMIC	33PF	5%	50V
C354	1-102-074-00	CERAMIC	0.001MF	10%	50V
C355	1-102-816-00	CERAMIC	120PF	5%	50V
C356	1-101-004-00	CERAMIC	0.01MF		50V
C357	1-102-965-00	CERAMIC	39PF	5%	50V
C359	1-124-963-11	ELECT	33MF	20%	16V
C360	1-124-963-11	ELECT	33MF	20%	16V
C361	1-101-004-00	CERAMIC	0.01MF		50V
C364	1-101-361-00	CERAMIC	150PF	5%	50V
C366	1-124-360-00	ELECT	1000MF	20%	16V
C368	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C369	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C370	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C371	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C374	1-124-477-11	ELECT	47MF	20%	16V
C376	1-102-978-00	CERAMIC	220PF	5%	50V
C377	1-101-888-00	CERAMIC	68PF	5%	50V
C379	1-124-499-11	ELECT	1MF	20%	50V
C380	1-124-963-11	ELECT	33MF	20%	16V
C381	1-124-925-11	ELECT	2.2MF	20%	50V
C382	1-124-927-11	ELECT	4.7MF	20%	50V
C384	1-124-477-11	ELECT	47MF	20%	16V
C385	1-124-927-11	ELECT	4.7MF	20%	50V
C386	1-136-165-00	MYLAR	0.1MF	10%	50V
C398	1-101-004-00	CERAMIC	0.01MF		50V
C399	1-126-101-11	ELECT	100MF	20%	16V
C413	1-101-004-00	CERAMIC	0.01MF		50V
C414	1-124-477-11	ELECT	47MF	20%	16V
C431	1-124-963-11	ELECT	33MF	20%	16V
C1303	1-124-963-11	ELECT	33MF	20%	16V
C1319	1-126-101-11	ELECT	100MF	20%	16V
C1321	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1383	1-124-477-11	ELECT	47MF	20%	16V
C1384	1-124-477-11	ELECT	47MF	20%	16V
C1385	1-124-477-11	ELECT	47MF	20%	16V
C1386	1-124-477-11	ELECT	47MF	20%	16V
C1387	1-124-477-11	ELECT	47MF	20%	16V
C1389	1-124-477-11	ELECT	47MF	20%	16V
C1390	1-124-477-11	ELECT	47MF	20%	16V
C1391	1-123-875-11	ELECT	10MF	20%	50V
C1392	1-102-978-00	CERAMIC	220PF	5%	50V
C1393	1-101-884-00	CERAMIC	56PF	5%	50V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNB01	*1-564-506-11	PLUG, CONNECTOR 3P	
CNB02	*1-564-509-11	PLUG, CONNECTOR 6P	
CNB05	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P	

B

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNB06	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P	
CNB07	*1-564-505-11	PLUG, CONNECTOR 2P	
CNB08	*1-564-509-11	PLUG, CONNECTOR 6P	

<TRIMMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CT331	1-141-181-11	CAP, TRIMMER	
CT332	1-141-181-11	CAP, TRIMMER	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D301	8-719-911-19	DIODE 1SS119	
D303	8-719-911-19	DIODE 1SS119	
D304	8-719-911-19	DIODE 1SS119	
D305	8-719-911-19	DIODE 1SS119	
D306	8-719-911-19	DIODE 1SS119	
D307	8-719-110-23	DIODE RD11ES-B3	
D308	8-719-911-19	DIODE 1SS119	
D309	8-719-911-19	DIODE 1SS119	
D310	8-719-911-19	DIODE 1SS119	
D311	8-719-911-19	DIODE 1SS119	
D313	8-719-911-19	DIODE 1SS119	
D314	8-719-911-19	DIODE 1SS119	
D331	8-719-911-19	DIODE 1SS119	
D333	8-719-911-19	DIODE 1SS119	
D337	8-719-109-93	DIODE RD6.2ES-B2	
DA	8-719-911-19	DIODE 1SS119	

<DELAY LINE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
DL331	1-415-122-31	DELAY LINE, 1H (PAL)	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC301	8-759-923-81	IC TDA4580	
IC331	8-759-947-20	IC TDA4555-V8	
IC1301	1-235-534-11	CONTROL MODULE, PICTURE	
IC1302	8-759-913-11	IC CX20125	
IC1306	8-759-800-81	IC LA7016	
IC1310	1-464-932-11	FILTER BLOCK, COM (CFB-3)	
IC1311	8-759-800-81	IC LA7016	
IC1312	8-759-800-81	IC LA7016	
IC1313	8-759-800-81	IC LA7016	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L301	1-410-466-41	INDUCTOR	4.7UH	
L302	1-410-466-41	INDUCTOR	4.7UH	
L304	1-410-470-11	INDUCTOR	10UH	
L305	1-408-416-00	INDUCTOR	39UH	
L306	1-410-470-11	INDUCTOR	10UH	
L307	1-410-470-11	INDUCTOR	10UH	
L308	1-410-470-11	INDUCTOR	10UH	
L331	1-408-408-00	INDUCTOR	8.2UH	
L332	1-404-539-11	COIL		
L333	1-404-554-11	COIL		
L334	1-404-554-11	COIL		
L335	1-404-554-11	COIL		
L336	1-404-495-00	COIL		
L337	1-404-495-00	COIL		
L338	1-410-470-11	INDUCTOR	10UH	
L339	1-410-478-11	INDUCTOR	47UH	
L344	1-410-470-11	INDUCTOR	10UH	
L371	1-410-466-41	INDUCTOR	4.7UH	
L372	1-410-466-41	INDUCTOR	4.7UH	
L373	1-410-466-41	INDUCTOR	4.7UH	
L405	1-410-470-11	INDUCTOR	10UH	
L411	1-410-466-41	INDUCTOR	4.7UH	
L1309	1-408-427-00	INDUCTOR	330UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q304	8-729-900-89	TRANSISTOR DTC144ES	
Q305	8-729-900-36	TRANSISTOR DTC124ES	
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q311	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q316	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q320	8-729-900-89	TRANSISTOR DTC144ES	
Q331	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q332	8-729-900-36	TRANSISTOR DTC124ES	
Q333	8-729-900-36	TRANSISTOR DTC124ES	
Q334	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q335	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q336	8-729-900-89	TRANSISTOR DTC144ES	
Q341	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q342	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q343	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q344	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q346	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q347	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q348	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q349	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q350	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q381	8-729-900-36	TRANSISTOR DTC124ES	
Q1351	8-729-900-61	TRANSISTOR DTA114ES	
Q1352	8-729-900-61	TRANSISTOR DTA114ES	
Q1353	8-729-900-61	TRANSISTOR DTA114ES	
Q1354	8-729-900-61	TRANSISTOR DTA114ES	
Q1360	8-729-177-32	TRANSISTOR 2SD773	
Q1361	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1363	8-729-119-78	TRANSISTOR 2SC2785-HFE	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R301	1-249-411-11	CARBON	330	5%	1/4W	
R302	1-249-411-11	CARBON	330	5%	1/4W	
R303	1-249-411-11	CARBON	330	5%	1/4W	
R304	1-247-704-11	CARBON	220	5%	1/4W	
R305	1-249-421-11	CARBON	2.2K	5%	1/4W	
R306	1-249-462-11	CARBON	22K	5%	1/4W	
R307	1-249-441-11	CARBON	100K	5%	1/4W	
R308	1-249-414-11	CARBON	560	5%	1/4W	
R309	1-249-405-11	CARBON	100	5%	1/4W	
R310	1-249-405-11	CARBON	100	5%	1/4W	
R311	1-249-405-11	CARBON	100	5%	1/4W	
R312	1-249-409-11	CARBON	220	5%	1/4W	
R313	1-249-437-11	CARBON	47K	5%	1/4W	
R314	1-249-413-11	CARBON	470	5%	1/4W	
R315	1-247-702-11	CARBON	150	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R316	1-249-407-11	CARBON	150	5%	1/4W	
R317	1-249-407-11	CARBON	150	5%	1/4W	
R318	1-249-433-11	CARBON	22K	5%	1/4W	
R319	1-247-704-11	CARBON	220	5%	1/4W	
R321	1-249-421-11	CARBON	2.2K	5%	1/4W	
R322	1-249-420-11	CARBON	1.8K	5%	1/4W	
R323	1-247-717-11	CARBON	2.2K	5%	1/4W	
R325	1-246-545-00	CARBON	1M	5%	1/4W	
R326	1-249-419-11	CARBON	1.5K	5%	1/4W	
R327	1-249-428-11	CARBON	8.2K	5%	1/4W	
R328	1-249-397-11	CARBON	22	5%	1/4W	
R329	1-249-397-11	CARBON	22	5%	1/4W	
R330	1-249-397-11	CARBON	22	5%	1/4W	
R331	1-249-418-11	CARBON	1.2K	5%	1/4W	
R332	1-249-401-11	CARBON	47	5%	1/4W	
R333	1-249-412-11	CARBON	390	5%	1/4W	
R334	1-249-408-11	CARBON	180	5%	1/4W	
R335	1-249-415-11	CARBON	680	5%	1/4W	
R336	1-249-418-11	CARBON	1.2K	5%	1/4W	
R337	1-247-148-00	CARBON	5.1K	5%	1/4W	
R338	1-249-429-11	CARBON	10K	5%	1/4W	
R339	1-249-423-11	CARBON	3.3K	5%	1/4W	
R340	1-249-435-11	CARBON	33K	5%	1/4W	
R341	1-249-428-11	CARBON	8.2K	5%	1/4W	
R342	1-249-429-11	CARBON	10K	5%	1/4W	
R343	1-249-429-11	CARBON	10K	5%	1/4W	
R344	1-249-417-11	CARBON	1K	5%	1/4W	
R345	1-247-887-00	CARBON	220K	5%	1/4W	
R346	1-249-429-11	CARBON	10K	5%	1/4W	
R347	1-249-429-11	CARBON	10K	5%	1/4W	
R348	1-249-437-11	CARBON	47K	5%	1/4W	
R349	1-249-410-11	CARBON	270	5%	1/4W	
R350	1-249-437-11	CARBON	47K	5%	1/4W	
R351	1-247-700-11	CARBON	100	5%	1/4W	
R352	1-249-437-11	CARBON	47K	5%	1/4W	
R353	1-247-881-00	CARBON	120K	5%	1/4W	
R354	1-247-723-11	CARBON	6.8K	5%	1/4W	
R355	1-249-423-11	CARBON	3.3K	5%	1/4W	
R356	1-249-427-11	CARBON	6.8K	5%	1/4W	
R357	1-247-704-11	CARBON	220	5%	1/4W	
R358	1-249-409-11	CARBON	220	5%	1/4W	
R359	1-249-419-11	CARBON	1.5K	5%	1/4W	
R360	1-249-410-11	CARBON	270	5%	1/4W	
R361	1-249-417-11	CARBON	1K	5%	1/4W	
R363	1-249-410-11	CARBON	270	5%	1/4W	
R364	1-249-417-11	CARBON	1K	5%	1/4W	
R365	1-249-409-11	CARBON	220	5%	1/4W	
R366	1-249-419-11	CARBON	1.5K	5%	1/4W	
R367	1-247-704-11	CARBON	220	5%	1/4W	
R368	1-249-436-11	CARBON	39K	5%	1/4W	
R369	1-249-425-11	CARBON	4.7K	5%	1/4W	
R370	1-249-418-11	CARBON	1.2K	5%	1/4W	
R371	1-249-417-11	CARBON	1K	5%	1/4W	
R373	1-249-428-11	CARBON	8.2K	5%	1/4W	
R374	1-249-431-11	CARBON	15K	5%	1/4W	
R377	1-249-436-11	CARBON	39K	5%	1/4W	
R378	1-249-441-11	CARBON	100K	5%	1/4W	
R379	1-247-726-11	CARBON	33K	5%	1/4W	
R380	1-249-436-11	CARBON	39K	5%	1/4W	
R381	1-247-713-11	CARBON	1K	5%	1/4W	
R382	1-249-409-11	CARBON	220	5%	1/4W	
R385	1-247-891-00	CARBON	330K	5%	1/4W	
R386	1-247-891-00	CARBON	330K	5%	1/4W	
R391	1-249-404-00	CARBON	82	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R392	1-249-402-11	CARBON	56	5%	1/4W	
R393	1-249-402-11	CARBON	56	5%	1/4W	
R394	1-249-402-11	CARBON	56	5%	1/4W	
R395	1-249-417-11	CARBON	1K	5%	1/4W	
R396	1-249-410-11	CARBON	270	5%	1/4W	
R397	1-249-417-11	CARBON	1K	5%	1/4W	
R399	1-249-437-11	CARBON	47K	5%	1/4W	
R414	1-249-415-11	CARBON	680	5%	1/4W	
R415	1-249-416-11	CARBON	820	5%	1/4W	
R416	1-249-415-11	CARBON	680	5%	1/4W	
R417	1-249-415-11	CARBON	680	5%	1/4W	
R418	1-215-412-00	METAL	430	1%	1/6W	
R419	1-249-414-11	CARBON	560	5%	1/4W	
R420	1-249-414-11	CARBON	560	5%	1/4W	
R421	1-249-414-11	CARBON	560	5%	1/4W	
R425	1-249-409-11	CARBON	220	5%	1/4W	
R427	1-249-415-11	CARBON	680	5%	1/4W	
R428	1-247-704-11	CARBON	220	5%	1/4W	
R429	1-249-462-11	CARBON	22K	5%	1/4W	
R430	1-247-713-11	CARBON	1K	5%	1/4W	
R431	1-249-414-11	CARBON	560	5%	1/4W	
R432	1-249-417-11	CARBON	1K	5%	1/4W	
R433	1-249-421-11	CARBON	2.2K	5%	1/4W	
R434	1-249-417-11	CARBON	1K	5%	1/4W	
R435	1-247-893-11	CARBON	390K	5%	1/4W	
R438	1-249-416-11	CARBON	820	5%	1/4W	
R439	1-249-415-11	CARBON	680	5%	1/4W	
R1308	1-249-413-11	CARBON	470	5%	1/4W	
R1313	1-249-429-11	CARBON	10K	5%	1/4W	
R1315	1-249-429-11	CARBON	10K	5%	1/4W	
R2446	1-249-416-11	CARBON	820	5%	1/4W	
R2447	1-247-712-11	CARBON	820	5%	1/4W	
R2448	1-247-712-11	CARBON	820	5%	1/4W	
R2449	1-247-712-11	CARBON	820	5%	1/4W	
R2450	1-249-436-11	CARBON	39K	5%	1/4W	
R2451	1-247-726-11	CARBON	33K	5%	1/4W	
R2460	1-249-424-11	CARBON	3.9K	5%	1/4W	
R2461	1-249-432-11	CARBON	18K	5%	1/4W	
R2462	1-247-721-11	CARBON	4.7K	5%	1/4W	
R2463	1-249-419-11	CARBON	1.5K	5%	1/4W	
R2465	1-249-465-11	CARBON	47K	5%	1/4W	
R2466	1-249-465-11	CARBON	47K	5%	1/4W	
R2467	1-249-441-11	CARBON	100K	5%	1/4W	
R2472	1-247-696-11	CARBON	47	5%	1/4W	
RA	1-249-428-11	CARBON	8.2K	5%	1/4W	
RD	1-249-423-11	CARBON	3.3K	5%	1/4W	
RE	1-249-434-11	CARBON	27K	5%	1/4W	
RF	1-249-429-11	CARBON	10K	5%	1/4W	
JW155	1-247-756-11	CARBON	2.2K	5%	1/2W	

<VARIABLE RESISTOR>

RV301	1-228-993-00	RES, ADJ, CARBON 4.7K
RV331	1-230-504-11	RES, ADJ, CARBON 220

<TRANSFORMER>

T331	1-404-584-11	COIL

<CRYSTAL>

X331	1-567-413-11	VIBRATOR, CRYSTAL
X332	1-527-789-00	VINRATOR, CRYSTAL

F2 **F1**

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-628-825-11	F2 BOARD ********	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNF11	*1-564-215-11	PIN, CONNECTOR 4P	
CNF12	*1-564-216-00	PIN, CONNECTOR 5P	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
SW01 ⚠	1-571-433-11	SWITCH, PUSH (AC POWER)	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1245-447-A	F1 BOARD, COMPLETE ******************	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C601 ⚠	1-136-360-51	FILM	0.22MF	20%	250V	
C602 ⚠	1-136-360-51	FILM	0.22MF	20%	250V	
C604 ⚠	1-161-964-51	CERAMIC	0.0047MF		250V	
C605 ⚠	1-161-964-51	CERAMIC	0.0047MF		250V	
C606 ⚠	1-161-964-51	CERAMIC	0.0047MF		250V	
C607 ⚠	1-161-964-51	CERAMIC	0.0047MF		250V	
C608	1-124-318-00	ELECT	2.2MF		400V	
C609	1-124-931-11	ELECT	47MF	20%	100V	
C610	1-124-910-11	ELECT	47MF	20%	50V	
C611	1-124-122-11	ELECT	100MF	20%	50V	
C612	1-102-157-00	CERAMIC	560PF	10%	500V	
C613	1-136-159-00	MYLAR	0.033MF	10%	50V	
C614	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C615	1-102-030-00	CERAMIC	330PF	10%	500V	
C617	1-102-030-00	CERAMIC	330PF	10%	500V	
C618	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V	
C619	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V	
C620	1-106-387-00	MYLAR	0.068MF	10%	200V	
C621	1-102-244-00	CERAMIC	220PF	10%	500V	
C622	1-102-244-00	CERAMIC	220PF	10%	500V	
C623	1-102-002-00	CERAMIC	680PF	10%	500V	
C630	1-124-499-11	ELECT	1MF	20%	50V	
C651 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C652 ⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C653	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V	
C654	1-124-607-11	ELECT	2200MF	20%	50V	
C655	1-124-618-11	ELECT	2200MF	20%	35V	
C656	1-124-360-00	ELECT	1000MF	20%	16V	
C657	1-102-030-00	CERAMIC	330PF	10%	500V	
C658	1-102-030-00	CERAMIC	330PF	10%	500V	
C659	1-102-030-00	CERAMIC	330PF	10%	500V	
C660	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C661	1-102-030-00	CERAMIC	330PF	10%	500V	
C662	1-124-618-11	ELECT	2200MF	20%	35V	
C663	1-102-125-00	CERAMIC	0.0047MF	10%	50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNF03	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CNF04	*1-564-513-11	PLUG, CONNECTOR 10P	
CNF05	*1-564-104-00	PIN, CONNECTOR 3P	
CNF06	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
CNF08	*1-564-505-11	PLUG, CONNECTOR 2P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D601 ⚠	8-719-946-90	DIODE KBU4JL-6088	
D602	8-719-304-63	DIODE RM11C	
D604	8-719-108-18	THYRISTOR 5P4M	
D605	8-719-302-21	DIODE EU2Z-V1	
D607	8-719-300-70	DIODE RH-1C	
D609	8-719-110-18	DIODE RD10ES-B3	
D610	8-719-302-21	DIODE EU2Z-V1	
D615	8-719-304-63	DIODE RM11C	
D651	8-719-300-33	DIODE RU-3AM	
D652	8-719-301-64	DIODE RU4DS	
D653	8-719-300-59	DIODE CTU-12S	
D654	8-719-925-06	DIODE ERC25-06S	
D657	8-719-300-59	DIODE CTU-12S	

<EYELET>

REF.NO.	PART NO.	DESCRIPTION	REMARK
EY01	*4-341-751-01	EYELET	
EY02	*4-341-751-01	EYELET	
EY03	*4-341-751-01	EYELET	
EY04	*4-341-751-01	EYELET	
EY05	*4-341-751-01	EYELET	
EY06	*4-341-751-01	EYELET	
EY07	*4-341-751-01	EYELET	
EY08	*4-341-751-01	EYELET	
EY09	*4-341-751-01	EYELET	
EY10	*4-341-751-01	EYELET	
EY11	*4-341-751-01	EYELET	
EY12	*4-341-751-01	EYELET	
EY13	*4-341-751-01	EYELET	
EY14	*4-341-751-01	EYELET	
EY15	*4-341-751-01	EYELET	
EY16	*4-341-751-01	EYELET	
EY17	*4-341-751-01	EYELET	
EY20	*4-341-751-01	EYELET	
EY22	*4-341-751-01	EYELET	
EY23	*4-341-751-01	EYELET	
EY50	*4-341-752-01	EYELET	
EY51	*4-341-752-01	EYELET	
EY52	*4-341-752-01	EYELET	
EY53	*4-341-752-01	EYELET	
EY54	*4-341-752-01	EYELET	
EY55	*4-341-752-01	EYELET	
EY56	*4-341-752-01	EYELET	
EY57	*4-341-752-01	EYELET	
EY58	*4-341-752-01	EYELET	
EY59	*4-341-752-01	EYELET	
EY60	*4-341-752-01	EYELET	
EY61	*4-341-752-01	EYELET	
EY62	*4-341-752-01	EYELET	
EY63	*4-341-752-01	EYELET	
EY64	*4-341-752-01	EYELET	
EY65	*4-341-752-01	EYELET	
EY66	*4-341-752-01	EYELET	
EY67	*4-341-752-01	EYELET	

<FUSE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
F601 ⚠	1-532-299-11	FUSE, TIME-LAG 5A/250V	
	*1-533-189-11	HOLDER, FUSE; F601	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<IC>				
IC601	8-749-920-24	IC STR80145				
	3-701-809-51	SCREW, TERMINAL (M3X12); IC601				
	4-363-414-00	SPACER, MICA; IC601				
IC602	8-749-920-63	IC STR-S5941				
	3-701-809-51	SCREW, TERMINAL (M3X12); IC602				
		<COIL>				
L602	1-410-397-21	FERRITE BEAD INDUCTOR				
L658	1-410-397-21	FERRITE BEAD INDUCTOR				
L659	1-410-397-21	FERRITE BEAD INDUCTOR				
L660	1-410-397-21	FERRITE BEAD INDUCTOR				
L661	1-410-397-21	FERRITE BEAD INDUCTOR				
L662	1-407-365-00	COIL, CHOKE				
L665	1-410-397-21	FERRITE BEAD INDUCTOR				
		<IC LINK>				
PS601⚠	1-532-637-91	LINK, IC 1A				
PS652⚠	1-532-637-91	LINK, IC 1A				
PS653⚠	1-532-984-91	LINK, IC 2A				
PS654⚠	1-532-637-91	LINK, IC 1A				
PS655⚠	1-532-637-91	LINK, IC 1A				
		<TRANSISTOR>				
Q601	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R601	1-205-922-11	WIREWOUND	5.6	5%	7W	
R602	1-247-895-00	CARBON	470K	5%	1/4W	
R604	1-207-612-00	WIREWOUND	0.1	10%	2W	F
R607	1-215-883-11	METAL OXIDE	33	5%	2W	F
R608	1-215-905-11	METAL OXIDE	10	5%	3W	F
R609	1-247-891-00	CARBON	330K	5%	1/4W	
R610	1-247-891-00	CARBON	330K	5%	1/4W	
R611	1-215-907-11	METAL OXIDE	22	5%	3W	F
R612	1-216-491-11	METAL OXIDE	56K	5%	3W	F
R613	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R614	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R620	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R622	1-247-891-00	CARBON	330K	5%	1/4W	
R623	1-247-891-00	CARBON	330K	5%	1/4W	
R624	1-247-891-00	CARBON	330K	5%	1/4W	
R625	1-247-891-00	CARBON	330K	5%	1/4W	
R626	1-247-891-00	CARBON	330K	5%	1/4W	
R627	1-247-891-00	CARBON	330K	5%	1/4W	
R630	1-247-708-11	CARBON	470	5%	1/4W	
R631	1-246-539-00	CARBON	560K	5%	1/4W	
R651 ⚠	1-247-289-11	CARBON	8.2M	5%	1W	
		<SPARK GAP>				
SG601⚠	1-519-422-21	GAP, SPARK				
		<TRANSFORMER>				
T601 ⚠	1-421-578-11	TRANSFORMER, LINE FILTER (LFT)				
T603 ⚠	1-449-500-11	TRANSFORMER, REGULATOR				

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<THERMISTOR>				
THP601⚠	1-808-059-31	THERMISTOR, POSITIVE				

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REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1296-521-A	A BOARD, COMPLETE *****************				
	*1-557-241-31	CABLE, P-P				
	*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P				
		<IF BLOCK>				
A01	1-466-068-11	IF BLOCK (SIF-M4)				
IFD01	1-466-064-11	IF BLOCK (IFD-389)				
IFG01	1-464-964-11	IF BLOCK (IFG-5.5S)				
		<CAPACITOR>				
C01	1-124-927-11	ELECT	4.7MF	20%	50V	
C03	1-101-003-00	CERAMIC	0.0047MF		50V	
C06	1-102-959-00	CERAMIC	22PF	5%	50V	
C07	1-123-875-11	ELECT	10MF	20%	50V	
C08	1-123-875-11	ELECT	10MF	20%	50V	
C09	1-123-875-11	ELECT	10MF	20%	50V	
C10	1-123-875-11	ELECT	10MF	20%	50V	
C11	1-124-477-11	ELECT	47MF	20%	16V	
C12	1-136-177-00	FILM	1MF	5%	50V	
C13	1-101-003-00	CERAMIC	0.0047MF		50V	
C14	1-101-003-00	CERAMIC	0.0047MF		50V	
C15	1-123-875-11	ELECT	10MF	20%	50V	
C16	1-136-157-00	MYLAR	0.022MF	10%	50V	
C17	1-123-875-11	ELECT	10MF	20%	50V	
C18	1-123-875-11	ELECT	10MF	20%	50V	
C19	1-106-367-00	MYLAR	0.01MF	10%	400V	
C20	1-126-233-11	ELECT	22MF	20%	50V	
C21	1-123-875-11	ELECT	10MF	20%	50V	
C22	1-106-220-00	MYLAR	0.1MF	10%	100V	
C23	1-106-228-00	MYLAR	0.22MF	10%	100V	
C24	1-124-963-11	ELECT	33MF	20%	16V	
C25	1-106-375-12	MYLAR	0.022MF	10%	250V	
C26	1-106-383-00	MYLAR	0.047MF	10%	100V	
C27	1-124-499-11	ELECT	1MF	20%	50V	
C29	1-124-499-11	ELECT	1MF	20%	50V	
C30	1-124-499-11	ELECT	1MF	20%	50V	
C31	1-106-367-00	MYLAR	0.01MF	10%	400V	
C32	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C34	1-106-228-00	MYLAR	0.22MF	10%	100V	
C35	1-124-477-11	ELECT	47MF	20%	16V	
C36	1-124-477-11	ELECT	47MF	20%	16V	
C37	1-124-927-11	ELECT	4.7MF	20%	50V	
C38	1-124-927-11	ELECT	4.7MF	20%	50V	
C39	1-124-963-11	ELECT	33MF	20%	16V	
C40	1-124-963-11	ELECT	33MF	20%	16V	
C43	1-124-443-00	ELECT	100MF	20%	10V	
C44	1-102-816-00	CERAMIC	120PF	5%	50V	
C50	1-101-003-00	CERAMIC	0.0047MF		50V	
C51	1-123-875-11	ELECT	10MF	20%	50V	
C53	1-124-477-11	ELECT	47MF	20%	16V	
C54	1-101-003-00	CERAMIC	0.0047MF		50V	
C55	1-123-875-11	ELECT	10MF	20%	50V	
C69	1-124-499-11	ELECT	1MF	20%	50V	
C70	1-130-475-00	MYLAR	0.0022MF	10%	50V	
C71	1-102-116-00	CERAMIC	680PF	10%	50V	
C75	1-124-477-11	ELECT	47MF	20%	16V	
C76	1-101-880-00	CERAMIC	47PF	10%	50V	

A **C**

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNA01	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA02	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA03	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
CNA04	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	

<CERAMIC TRAP>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CT01	1-409-332-00	CERAMIC TRAP (4.5MHZ)	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D02	8-719-000-06	DIODE MC921	
D05	8-719-100-35	DIODE RD5.6ES-B2	
D06	8-719-911-19	DIODE 1SS119	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC01	8-759-979-61	IC SAB3035	
IC03	8-759-979-62	IC PCF8574	
IC04	8-759-208-08	IC TC4052BPHB	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L01	1-410-478-11	INDUCTOR	47UH	
L02	1-410-470-11	INDUCTOR	10UH	
L03	1-410-478-11	INDUCTOR	47UH	
L04	1-410-478-11	INDUCTOR	47UH	
L08	1-408-411-00	INDUCTOR	15UH	
L09	1-410-470-11	INDUCTOR	10UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q03	8-729-900-89	TRANSISTOR DTC144ES	
Q04	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q05	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q06	8-729-115-30	TRANSISTOR 2SK105A-30	
Q07	8-729-900-89	TRANSISTOR DTC144ES	
Q08	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q11	8-729-900-89	TRANSISTOR DTC144ES	
Q12	8-729-900-89	TRANSISTOR DTC144ES	
Q13	8-729-900-89	TRANSISTOR DTC144ES	
Q14	8-729-900-89	TRANSISTOR DTC144ES	
Q15	8-729-900-65	TRANSISTOR DTA144ES	
Q16	8-729-900-65	TRANSISTOR DTA144ES	
Q17	8-729-900-65	TRANSISTOR DTA144ES	
Q18	8-729-900-65	TRANSISTOR DTA144ES	
Q24	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q25	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q26	8-729-900-89	TRANSISTOR DTC144ES	
Q27	8-729-900-89	TRANSISTOR DTC144ES	
Q28	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q35	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q36	8-729-900-89	TRANSISTOR DTC144ES	
Q37	8-729-900-89	TRANSISTOR DTC144ES	
Q38	8-729-119-78	TRANSISTOR 2SC2785-HFE	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R01	1-249-417-11	CARBON	1K	5%	1/4W	
R02	1-249-429-11	CARBON	10K	5%	1/4W	
R03	1-249-427-11	CARBON	6.8K	5%	1/4W	
R04	1-249-429-11	CARBON	10K	5%	1/4W	
R05	1-249-429-11	CARBON	10K	5%	1/4W	
R07	1-247-725-11	CARBON	10K	5%	1/4W	
R08	1-249-429-11	CARBON	10K	5%	1/4W	
R09	1-249-418-11	CARBON	1.2K	5%	1/4W	
R13	1-249-419-11	CARBON	1.5K	5%	1/4W	
R14	1-249-417-11	CARBON	1K	5%	1/4W	
R15	1-249-431-11	CARBON	15K	5%	1/4W	
R16	1-249-429-11	CARBON	10K	5%	1/4W	
R26	1-249-417-11	CARBON	1K	5%	1/4W	
R27	1-249-410-11	CARBON	270	5%	1/4W	
R28	1-249-423-11	CARBON	3.3K	5%	1/4W	
R29	1-249-437-11	CARBON	47K	5%	1/4W	
R32	1-249-441-11	CARBON	100K	5%	1/4W	
R34	1-249-405-11	CARBON	100	5%	1/4W	
R36	1-249-417-11	CARBON	1K	5%	1/4W	
R51	1-249-435-11	CARBON	33K	5%	1/4W	
R52	1-249-435-11	CARBON	33K	5%	1/4W	
R53	1-249-435-11	CARBON	33K	5%	1/4W	
R54	1-249-435-11	CARBON	33K	5%	1/4W	
R55	1-249-429-11	CARBON	10K	5%	1/4W	
R56	1-249-431-11	CARBON	15K	5%	1/4W	
R58	1-249-441-11	CARBON	100K	5%	1/4W	
R59	1-249-441-11	CARBON	100K	5%	1/4W	
R60	1-249-437-11	CARBON	47K	5%	1/4W	
R61	1-249-437-11	CARBON	47K	5%	1/4W	
R63	1-249-425-11	CARBON	4.7K	5%	1/4W	
R64	1-249-437-11	CARBON	47K	5%	1/4W	
R65	1-249-437-11	CARBON	47K	5%	1/4W	
R67	1-249-425-11	CARBON	4.7K	5%	1/4W	
R68	1-249-441-11	CARBON	100K	5%	1/4W	
R71	1-249-429-11	CARBON	10K	5%	1/4W	
R74	1-249-426-11	CARBON	5.6K	5%	1/4W	
R75	1-249-417-11	CARBON	1K	5%	1/4W	
R82	1-249-433-11	CARBON	22K	5%	1/4W	
R85	1-249-423-11	CARBON	3.3K	5%	1/4W	
R86	1-249-423-11	CARBON	3.3K	5%	1/4W	
R87	1-249-427-11	CARBON	6.8K	5%	1/4W	
R88	1-249-411-11	CARBON	330	5%	1/4W	
R89	1-247-891-00	CARBON	330K	5%	1/4W	
R90	1-249-440-11	CARBON	82K	5%	1/4W	
R91	1-249-429-11	CARBON	10K	5%	1/4W	
R92	1-249-421-11	CARBON	2.2K	5%	1/4W	
R93	1-249-431-11	CARBON	15K	5%	1/4W	
R94	1-249-425-11	CARBON	4.7K	5%	1/4W	
R96	1-249-433-11	CARBON	22K	5%	1/4W	
R98	1-249-441-11	CARBON	100K	5%	1/4W	
R103	1-249-441-11	CARBON	100K	5%	1/4W	

<TUNER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
TU01	⚠ 1-465-109-11	TUNER, ET (UV-618)	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X01	1-577-293-11	VIBRATOR, CRYSTAL	

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*A-1330-914-A C BOARD, COMPLETE
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*4-379-160-01 COVER (REAR LID), CV
*4-379-167-01 COVER (MAIN), CV

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C703	1-102-980-00	CERAMIC	270PF	5%	50V	
C704	1-102-116-00	CERAMIC	680PF	10%	50V	
C705	1-102-978-00	CERAMIC	220PF	5%	50V	
C706	1-102-116-00	CERAMIC	680PF	10%	50V	
C707	1-162-116-00	CERAMIC	680PF	10%	2KV	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C709	1-102-116-00	CERAMIC	680PF	10%	50V	
C710	1-123-947-00	ELECT	10MF	20%	250V	
C711	1-101-888-00	CERAMIC	68PF	5%	50V	
C712	1-102-980-00	CERAMIC	270PF	5%	50V	
C714	1-126-103-11	ELECT	470MF	20%	16V	
C716	1-162-622-11	CERAMIC	330PF	10%	400V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	
C721	1-124-915-11	ELECT	10MF	20%	63V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNC71	*1-506-348-XX	PIN, CONNECTOR 3P
CNC72	*1-564-509-11	PLUG, CONNECTOR 6P
CNC81	*1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D701	8-719-110-14	DIODE RD9.1ES-B3
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D706	8-719-911-19	DIODE 1SS119
D707	8-719-911-19	DIODE 1SS119
D708	8-719-911-19	DIODE 1SS119
D709	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D711	8-719-925-06	DIODE ERC25-06S
D713	8-719-911-19	DIODE 1SS119

<JACK>

REF.NO.	PART NO.	DESCRIPTION
J701	1-526-798-51	SOCKET, PICTURE TUBE

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L704	1-410-476-11	INDUCTOR	33UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q703	8-729-326-11	TRANSISTOR 2SC2611
Q704	8-729-200-17	TRANSISTOR 2SA1091
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q706	8-729-326-11	TRANSISTOR 2SC2611
Q707	8-729-200-17	TRANSISTOR 2SA1091
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q709	8-729-326-11	TRANSISTOR 2SC2611
Q710	8-729-200-17	TRANSISTOR 2SA1091

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W	
R706	1-249-409-11	CARBON	220	5%	1/4W	
R707	1-247-706-11	CARBON	330	5%	1/4W	
R708	1-247-696-11	CARBON	47	5%	1/4W	
R709	1-202-844-00	SOLID	330K	10%	1/2W	
R710	1-215-453-00	METAL	22K	1%	1/6W	
R712	1-249-417-11	CARBON	1K	5%	1/4W	
R713	1-215-461-00	METAL	47K	1%	1/6W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-202-824-00	SOLID	3.3K	10%	1/2W	
R716	1-247-704-11	CARBON	220	5%	1/4W	
R717	1-247-710-11	CARBON	560	5%	1/4W	
R718	1-202-814-11	SOLID	33K	10%	1/2W	
R719	1-247-696-11	CARBON	47	5%	1/4W	
R720	1-249-423-11	CARBON	3.3K	5%	1/4W	
R721	1-202-842-11	SOLID	220K	10%	1/2W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	10%	1/2W	
R725	1-202-838-00	SOLID	100K	10%	1/2W	
R726	1-202-824-00	SOLID	3.3K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-347-11	METAL OXIDE	0.68	5%	1W	F
R729	1-249-415-11	CARBON	680	5%	1/4W	
R730	1-249-401-11	CARBON	47	5%	1/4W	
R731	1-249-423-11	CARBON	3.3K	5%	1/4W	
R732	1-249-415-11	CARBON	680	5%	1/4W	
R733	1-247-711-11	CARBON	680	5%	1/4W	
R734	1-249-405-11	CARBON	100	5%	1/4W	
R735	1-215-471-00	METAL	120K	1%	1/6W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-215-469-00	METAL	100K	1%	1/6W	
R738	1-202-549-00	SOLID	100	10%	1/2W	
R739	1-202-837-00	SOLID	82K	10%	1/2W	
R739A	1-249-417-11	CARBON	1K	5%	1/4W	
R740	1-202-846-00	SOLID	470K	10%	1/2W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV701	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M
RV702	⚠1-230-619-11	RES, ADJ, METAL GLAZE 110M
RV703	1-228-991-00	RES, ADJ, CARBON 2.2K
RV704	1-228-991-00	RES, ADJ, CARBON 2.2K

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*A-1345-814-A D BOARD, COMPLETE

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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C501	1-124-927-11	ELECT	4.7MF	20%	50V	
C502	1-124-927-11	ELECT	4.7MF	20%	50V	
C503	1-106-371-00	MYLAR	0.015MF	10%	100V	
C504	1-101-361-00	CERAMIC	150PF	5%	50V	
C505	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C506	1-106-375-12	MYLAR	0.022MF	10%	200V	
C507	1-136-171-00	FILM	0.33MF	5%	50V	
C508	1-106-375-12	MYLAR	0.022MF	10%	200V	
C509	1-106-220-00	MYLAR	0.1MF	10%	100V	
C510	1-161-959-00	CERAMIC	22PF	10%	500V	
C511	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C512	1-106-220-00	MYLAR	0.1MF	10%	100V	
C513	1-106-343-00	MYLAR	0.001MF	10%	100V	

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C514	1-106-228-00	MYLAR	0.22MF	10%	100V
C515	1-124-499-11	ELECT	1MF	20%	50V
C516	1-106-343-00	MYLAR	0.001MF	10%	100V
C517	1-124-477-11	ELECT	47MF	20%	16V
C518	1-124-902-00	ELECT	0.47MF	20%	50V
C519	1-136-173-00	FILM	0.47MF	5%	50V
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C521	1-106-220-00	MYLAR	0.1MF	10%	100V
C522	1-126-105-11	ELECT	1000MF	20%	35V
C523	1-106-343-00	MYLAR	0.001MF	10%	100V
C524	1-106-355-12	MYLAR	0.0033MF	10%	100V
C525	1-102-973-00	CERAMIC	100PF	5%	50V
C527	1-106-220-00	MYLAR	0.1MF	10%	100V
C531	1-124-190-00	ELECT	680MF	10%	25V
C532	1-124-122-11	ELECT	100MF	20%	50V
C533	1-106-216-00	MYLAR	0.068MF	10%	100V
C534	1-124-120-11	ELECT	220MF	20%	16V
C536	1-131-365-00	TANTALUM	10MF	10%	16V
C537	1-124-499-11	ELECT	1MF	20%	50V
C538	1-106-343-00	MYLAR	0.001MF	10%	100V
C539	1-102-820-00	CERAMIC	330PF	5%	50V
C591	1-123-875-11	ELECT	10MF	20%	50V
C592	1-124-477-11	ELECT	47MF	20%	16V
C593	1-102-820-00	CERAMIC	330PF	5%	50V
C594	1-102-231-11	CERAMIC	47PF	10%	500V
C801	1-126-105-11	ELECT	1000MF	20%	35V
C802	1-102-228-00	CERAMIC	470PF	10%	500V
C804	1-123-948-00	ELECT	22MF	20%	250V
C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C806	1-106-387-00	MYLAR	0.068MF	10%	200V
C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C810	1-124-494-00	ELECT	33MF		160V
C811	1-136-128-00	FILM	1.2MF	5%	400V
C812	1-123-946-00	ELECT	4.7MF	20%	250V
C813	1-102-212-00	CERAMIC	820PF	10%	500V
C814 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C815	1-136-126-00	FILM	0.82MF	5%	400V
C817	1-136-591-11	FILM	0.017MF	3%	1.4KV
C818	1-136-759-11	FILM	0.039MF	10%	630V
C819 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV
C820	1-106-365-00	MYLAR	0.0082MF	99%	200V
C821 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C822	1-102-114-00	CERAMIC	470PF	10%	50V
C823	1-106-359-00	MYLAR	0.0047MF	10%	200V
C824	1-102-212-00	CERAMIC	820PF	10%	500V
C828	1-106-383-00	MYLAR	0.047MF	10%	100V
C829	1-106-379-12	MYLAR	0.033MF	10%	200V
C849	1-102-112-00	CERAMIC	330PF	10%	50V
C850	1-102-212-00	CERAMIC	820PF	10%	500V
C851	1-126-105-11	ELECT	1000MF	20%	35V
C852	1-102-002-00	CERAMIC	680PF	10%	500V
C854	1-124-443-00	ELECT	100MF	20%	6.3V
C855	1-124-499-11	ELECT	1MF	20%	50V
C860	1-161-830-00	CERAMIC	0.0047MF		500V
C1501	1-123-875-11	ELECT	10MF	20%	50V
C1502	1-123-875-11	ELECT	10MF	20%	50V
C1504	1-124-910-11	ELECT	47MF	20%	50V
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V
C1507	1-106-355-12	MYLAR	0.0033MF	10%	100V
C1508	1-123-875-11	ELECT	10MF	20%	50V
C1509	1-124-499-11	ELECT	1MF	20%	50V
C1511	1-123-875-11	ELECT	10MF	20%	50V
C1512	1-106-367-00	MYLAR	0.01MF	10%	100V
C1513	1-102-963-00	CERAMIC	33PF	5%	50V
C1520	1-106-367-00	MYLAR	0.01MF	10%	100V
C1551	1-124-902-00	ELECT	0.47MF	20%	50V
C1552	1-124-122-11	ELECT	100MF	20%	50V
C1630	1-124-463-00	ELECT	0.1MF	20%	50V
C1631	1-124-187-11	ELECT	22MF	20%	50V
C5501	1-124-499-11	ELECT	1MF	20%	50V
C5502	1-124-119-00	ELECT	330MF	20%	16V

<FILTER>

REF.NO.	PART NO.	DESCRIPTION
CF501	1-567-888-11	OSCILLATOR, CERAMIC

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CND20	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P
CND21	*1-564-104-00	PIN, CONNECTOR 3P
CND22	*1-564-514-11	PLUG, CONNECTOR 11P
CND23	*1-564-506-11	PLUG, CONNECTOR 3P
CND81	*1-564-506-11	PLUG, CONNECTOR 3P
CND83	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P
CND87	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CND801	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D501	8-719-911-19	DIODE 1SS119
D502	8-719-200-02	DIODE 10E2
D504	8-719-911-55	DIODE U05G
D506	8-719-000-12	DIODE MC931
D508	8-719-911-19	DIODE 1SS119
D509	8-719-911-19	DIODE 1SS119
D511	8-719-911-55	DIODE U05G
D512	8-719-911-55	DIODE U05G
D513	8-719-109-81	DIODE RD4.7ES-B2
D591	8-719-911-19	DIODE 1SS119
D592	8-719-911-19	DIODE 1SS119
D593	8-719-911-19	DIODE 1SS119
D801	8-719-925-06	DIODE ERC25-06S
D802	8-719-925-06	DIODE ERC25-06S
D803	8-719-300-65	DIODE ES1F
D804	8-719-911-55	DIODE U05G
D805	8-719-911-55	DIODE U05G
D806	8-719-945-80	DIODE ERC06-15S
D807	8-719-945-80	DIODE ERC06-15S
D808	8-719-900-26	DIODE ERD29-08J
D809	8-719-911-19	DIODE 1SS119
D850	8-719-901-58	DIODE RGP15J
D1501	8-719-925-06	DIODE ERC25-06S
D1502	8-719-911-19	DIODE 1SS119
D1503	8-719-911-19	DIODE 1SS119
D1504	8-719-911-19	DIODE 1SS119
D1505	8-719-000-12	DIODE MC931
D1550	8-719-911-19	DIODE 1SS119
D1552	8-719-925-06	DIODE ERC25-06S
D1553	8-719-911-19	DIODE 1SS119

<EYELET>

REF.NO.	PART NO.	DESCRIPTION
EY1	*4-341-752-01	EYELET
EY2	*4-341-752-01	EYELET
EY3	*4-341-752-01	EYELET
EY4	*4-341-752-01	EYELET
EY5	*4-341-751-01	EYELET

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
EY6	*4-341-751-01	EYELET	
EY7	*4-341-751-01	EYELET	
EY8	*4-341-751-01	EYELET	
EY9	*4-341-751-01	EYELET	
EY10	*4-341-751-01	EYELET	
EY12	*4-341-752-01	EYELET	
EY18	*4-341-751-01	EYELET	
EY19	*4-341-751-01	EYELET	
EY20	*4-341-752-01	EYELET	
EY21	*4-341-752-01	EYELET	
EY23	*4-341-752-01	EYELET	
EY24	*4-341-752-01	EYELET	
EY25	*4-341-751-01	EYELET	
EY26	*4-341-751-01	EYELET	
EY27	*4-341-751-01	EYELET	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC501	8-759-970-73	IC TEA2028B	
IC502	8-759-944-57	IC TDA8170	
IC503	8-749-920-60	IC STR90120	
IC1501	8-759-942-16	IC TEA2031A	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L501	1-408-225-00	INDUCTOR 3.3UH	
L801	1-459-111-00	COIL, DRAM CORE (CDI)	
L803	1-459-104-00	COIL, DUST CORE	
L804	1-408-237-00	INDUCTOR 3.3MMH	
L805	1-459-780-13	COIL, HORIZONTAL LINEARITY	
L806	1-459-111-00	COIL, DRAM CORE (CDI)	
L809	*1-420-872-00	COIL, AIR CORE	
L811	1-459-104-00	COIL, DUST CORE	
L812	1-408-698-00	INDUCTOR 8.2UH	
L850	1-408-225-00	INDUCTOR 3.3UH	

<NEON LAMP>

REF.NO.	PART NO.	DESCRIPTION	REMARK
NL801⚠	1-519-237-13	LAMP, NEON	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-177-42	TRANSISTOR 2SD774-2	
Q506	8-729-177-42	TRANSISTOR 2SD774-2	
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q512	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q515	8-729-900-80	TRANSISTOR DTC114ES	
Q591	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q598	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q804	8-729-305-01	TRANSISTOR 2SD1941-07	
	*4-378-214-01	HOLDER, TR; Q804	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q806	8-729-122-12	TRANSISTOR 2SA1221-L	
Q807	8-729-107-53	TRANSISTOR 2SC2275-A	
Q1551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1552	8-729-208-72	TRANSISTOR 2SC3298A-O	
Q1608	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1609	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1610	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1613	8-729-119-76	TRANSISTOR 2SA1175-HFE	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R500	1-247-897-11	CARBON	560K	5%	1/4W	
R501	1-247-708-11	CARBON	470	5%	1/4W	
R502	1-249-409-11	CARBON	220	5%	1/4W	
R503	1-249-410-11	CARBON	270	5%	1/4W	
R504	1-214-735-00	METAL	1.8K	1%	1/4W	
R505	1-249-460-11	CARBON	15K	5%	1/4W	
R506	1-249-428-11	CARBON	8.2K	5%	1/4W	
R509	1-249-424-11	CARBON	3.9K	5%	1/4W	
R510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R511	1-247-719-11	CARBON	3.3K	5%	1/4W	
R513	1-249-425-11	CARBON	4.7K	5%	1/4W	
R514	1-249-409-11	CARBON	220	5%	1/4W	
R515	1-249-423-11	CARBON	3.3K	5%	1/4W	
R516	1-249-408-11	CARBON	180	5%	1/4W	
R517	1-247-725-11	CARBON	10K	5%	1/4W	
R518	1-249-437-11	CARBON	47K	5%	1/4W	
R519	1-249-433-11	CARBON	22K	5%	1/4W	
R520	1-249-411-11	CARBON	330	5%	1/4W	
R521	1-247-700-11	CARBON	100	5%	1/4W	
R524	1-249-421-11	CARBON	2.2K	5%	1/4W	
R525	1-249-417-11	CARBON	1K	5%	1/4W	
R526	1-247-704-11	CARBON	220	5%	1/4W	F
R527	1-249-460-11	CARBON	15K	5%	1/4W	
R530	1-249-448-11	CARBON	1.2	5%	1/4W	F
R531	1-247-881-00	CARBON	120K	5%	1/4W	
R532	1-247-713-11	CARBON	1K	5%	1/4W	
R534	1-246-543-00	CARBON	820K	5%	1/4W	
R535	1-249-751-11	CARBON	3.3M	5%	1/4W	
R536	1-249-749-00	CARBON	2.2M	5%	1/4W	
R537	1-249-463-11	CARBON	27K	5%	1/4W	
R538	1-249-469-11	CARBON	100K	5%	1/4W	
R539	1-247-883-00	CARBON	150K	5%	1/4W	
R541	1-249-438-11	CARBON	56K	5%	1/4W	
R542	1-249-429-11	CARBON	10K	5%	1/4W	
R543	1-249-451-11	CARBON	2.2	5%	1/4W	
R544	1-247-745-11	CARBON	330	5%	1/2W	
R545	1-249-462-11	CARBON	22K	5%	1/4W	
R546	1-249-434-11	CARBON	27K	5%	1/4W	
R547	1-249-423-11	CARBON	3.3K	5%	1/4W	
R548	1-216-349-00	METAL OXIDE	1	5%	1W	F
R549	1-215-890-11	METAL OXIDE	470	5%	2W	F
R550	1-249-440-11	CARBON	82K	5%	1/4W	
R551	1-249-749-00	CARBON	2.2M	5%	1/4W	
R552	1-216-433-00	METAL OXIDE	1.2K	5%	1W	F
R553	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-749-00	CARBON	2.2M	5%	1/4W	
R556	1-249-405-11	CARBON	100	5%	1/4W	
R557	1-249-425-11	CARBON	4.7K	5%	1/4W	
R558	1-247-895-00	CARBON	470K	5%	1/4W	
R559	1-249-427-11	CARBON	6.8K	5%	1/4W	
R560	1-249-411-11	CARBON	330	5%	1/4W	
R563	1-249-437-11	CARBON	47K	5%	1/4W	
R564	1-249-429-11	CARBON	10K	5%	1/4W	
R565	1-249-426-11	CARBON	5.6K	5%	1/4W	
R566	1-249-435-11	CARBON	33K	5%	1/4W	
R567	1-249-422-11	CARBON	2.7K	5%	1/4W	
R569	1-249-405-11	CARBON	100	5%	1/4W	
R570	1-249-435-11	CARBON	33K	5%	1/4W	
R591	1-249-427-11	CARBON	6.8K	5%	1/4W	
R592	1-249-429-11	CARBON	10K	5%	1/4W	
R593	1-249-429-11	CARBON	10K	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R594	1-249-424-11	CARBON	3.9K	5%	1/4W	
R595	1-249-417-11	CARBON	1K	5%	1/4W	
R596	1-249-425-11	CARBON	4.7K	5%	1/4W	
R597	1-249-425-11	CARBON	4.7K	5%	1/4W	
R598	1-249-405-11	CARBON	100	5%	1/4W	
R599	1-249-405-11	CARBON	100	5%	1/4W	
R670	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R671	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R672	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R673	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R674	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R802	1-249-474-11	CARBON	1	5%	1/2W	F
R805	1-249-474-11	CARBON	1	5%	1/2W	F
R806	1-249-467-11	CARBON	68K	5%	1/4W	
R807	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R809	1-202-823-11	SOLID	2.7K	10%	1/2W	
R812	1-249-494-11	CARBON	68K	5%	1/2W	
R815	1-215-884-11	METAL OXIDE	47	5%	2W	F
R816	1-215-868-00	METAL OXIDE	680	5%	1W	F
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-247-725-11	CARBON	10K	5%	1/4W	F
R822	1-217-778-11	FUSIBLE	1K	5%	1W	F
R825	1-216-341-11	METAL OXIDE	0.22	5%	1W	F
R831	1-249-443-11	CARBON	0.47	5%	1/4W	F
R832	1-247-692-11	CARBON	22	5%	1/4W	F
R833	1-216-379-11	METAL OXIDE	6.8	5%	2W	F
R834	1-249-482-11	CARBON	4.7	5%	1/2W	F
R835	1-215-884-11	METAL OXIDE	47	5%	2W	F
R836	1-215-884-11	METAL OXIDE	47	5%	2W	F
R837	1-215-911-11	METAL OXIDE	100	5%	3W	F
R839	1-249-429-11	CARBON	10K	5%	1/4W	
R840	1-249-496-11	CARBON	100K	5%	1/2W	
R841	1-247-713-11	CARBON	1K	5%	1/4W	
R842	1-247-713-11	CARBON	1K	5%	1/4W	
R843	1-216-389-11	METAL OXIDE	1	5%	3W	F
R844	1-215-421-00	METAL	1K	1%	1/6W	
R845	1-214-913-00	METAL	100K	1%	1/2W	
R846	1-249-496-11	CARBON	100K	5%	1/2W	
R847	1-249-429-11	CARBON	10K	5%	1/4W	
R848	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R849	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R1501	1-249-462-11	CARBON	22K	5%	1/4W	
R1502	1-249-434-11	CARBON	27K	5%	1/4W	
R1503	1-247-895-00	CARBON	470K	5%	1/4W	
R1504	1-249-435-11	CARBON	33K	5%	1/4W	
R1505	1-249-433-11	CARBON	22K	5%	1/4W	
R1506	1-247-895-00	CARBON	470K	5%	1/4W	
R1509	1-247-887-00	CARBON	220K	5%	1/4W	
R1510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1511	1-249-417-11	CARBON	1K	5%	1/4W	
R1512	1-247-725-11	CARBON	10K	5%	1/4W	
R1513	1-249-438-11	CARBON	56K	5%	1/4W	
R1514	1-249-417-11	CARBON	1K	5%	1/4W	
R1516	1-249-432-11	CARBON	18K	5%	1/4W	
R1517	1-249-411-11	CARBON	330	5%	1/4W	
R1518	1-249-429-11	CARBON	10K	5%	1/4W	
R1519	1-247-883-00	CARBON	150K	5%	1/4W	
R1520	1-247-899-11	CARBON	680K	5%	1/4W	
R1521	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1552	1-249-429-11	CARBON	10K	5%	1/4W	
R1553	1-215-917-11	METAL OXIDE	1K	5%	3W	F
R1554	1-249-407-11	CARBON	150	5%	1/4W	
R1602	1-247-722-11	CARBON	5.6K	5%	1/4W	
R1636	1-249-437-11	CARBON	47K	5%	1/4W	
R1637	1-249-437-11	CARBON	47K	5%	1/4W	
R1638	1-249-413-11	CARBON	470	5%	1/4W	
R1639	1-249-441-11	CARBON	100K	5%	1/4W	
R1643	1-247-721-11	CARBON	4.7K	5%	1/4W	
R1664	1-247-718-11	CARBON	2.7K	5%	1/4W	
R5113	1-249-468-11	CARBON	82K	5%	1/4W	
R5501	1-247-725-11	CARBON	10K	5%	1/4W	
R5502	1-249-417-11	CARBON	1K	5%	1/4W	
R5503	1-249-429-11	CARBON	10K	5%	1/4W	
R5504	1-249-430-11	CARBON	12K	5%	1/4W	
R5508	1-247-700-11	CARBON	100	5%	1/4W	
R5509	1-249-425-11	CARBON	4.7K	5%	1/4W	
R5511	1-249-429-11	CARBON	10K	5%	1/4W	
R5512	1-249-460-11	CARBON	15K	5%	1/4W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV502	1-238-016-11	RES, ADJ, CARBON 10K
RV1501	1-238-023-11	RES, ADJ, CARBON 470K
RV1502	1-238-016-11	RES, ADJ, CARBON 10K
RV1503	1-238-017-11	RES, ADJ, CARBON 22K
RV1504	1-238-012-11	RES, ADJ, CARBON 1K
RV1505	1-238-023-11	RES, ADJ, CARBON 470K
RV1506	1-238-017-11	RES, ADJ, CARBON 22K
RV1507	1-238-009-11	RES, ADJ, CARBON 220
RV1508	1-238-015-11	RES, ADJ, CARBON 4.7K
RV1509	1-238-023-11	RES, ADJ, CARBON 470K

<SPARK GAP>

REF.NO.	PART NO.	DESCRIPTION
SG801	1-519-063-XX	DISCHARGING GAP

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION
T801	1-437-090-00	HDT
T802 ⚠	1-439-418-31	TRANSFORMER ASSY, FLYBACK
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)
T805	1-421-794-11	TRANSFORMER, FERRITE (PMT)

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*A-1347-036-A V BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			
C01	1-126-101-11	ELECT	100MF	20%	16V
C02	1-124-120-11	ELECT	220MF	20%	16V
C03	1-124-119-00	ELECT	330MF	20%	16V
C04	1-124-477-11	ELECT	47MF	20%	16V
C05	1-126-101-11	ELECT	100MF	20%	16V
C06	1-124-120-11	ELECT	220MF	20%	16V
C07	1-136-177-00	FILM	1MF	5%	50V
C08	1-102-951-00	CERAMIC	15PF	5%	50V
C09	1-102-074-00	CERAMIC	0.001MF	10%	50V
C10	1-102-824-00	CERAMIC	470PF	5%	50V
C11	1-106-375-12	MYLAR	0.022MF	10%	100V
C12	1-102-980-00	CERAMIC	270PF	5%	50V
C13	1-102-973-00	CERAMIC	100PF	5%	50V
C14	1-102-951-00	CERAMIC	15PF	5%	50V
C15	1-102-961-00	CERAMIC	27PF	5%	50V
C16	1-106-367-00	MYLAR	0.01MF	10%	100V
C17	1-136-161-00	MYLAR	0.047MF	10%	50V
C18	1-102-953-00	CERAMIC	18PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C19	1-136-161-00	MYLAR	0.047MF	10%	50V	
C20	1-102-978-00	CERAMIC	220PF	5%	50V	
C21	1-136-163-00	MYLAR	0.068MF	10%	50V	
C24	1-126-101-11	ELECT	100MF	20%	16V	
C25	1-124-477-11	ELECT	47MF	20%	16V	
C27	1-102-820-00	CERAMIC	330PF	5%	50V	
C28	1-102-116-00	CERAMIC	680PF	10%	50V	
C29	1-124-927-11	ELECT	4.7MF	20%	50V	
C38	1-102-816-00	CERAMIC	120PF	5%	50V	
C51	1-136-165-00	MYLAR	0.1MF	10%	50V	
C52	1-136-165-00	MYLAR	0.1MF	10%	50V	
C53	1-136-165-00	MYLAR	0.1MF	10%	50V	
C54	1-136-165-00	MYLAR	0.1MF	10%	50V	
C55	1-136-165-00	MYLAR	0.1MF	10%	50V	
C56	1-136-165-00	MYLAR	0.1MF	10%	50V	
C57	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C58	1-102-074-00	CERAMIC	0.001MF	10%	50V	
		<CONNECTOR>				
CNV01	*1-564-506-11	PLUG, CONNECTOR 3P				
CNV02	*1-564-508-11	PLUG, CONNECTOR 5P				
CNV03	*1-564-509-11	PLUG, CONNECTOR 6P				
CNV04	*1-564-506-11	PLUG, CONNECTOR 3P				
CNV05	*1-564-505-11	PLUG, CONNECTOR 2P				
		<NETWORK, RES, THICK FILM>				
CP01	1-235-977-11	NETWORK, RES, THICK FILM				
CP02	1-235-977-11	NETWORK, RES, THICK FILM				
		<TRIMMER>				
CT01	1-141-245-00	TRIMMER, CERAMIC				
		<DIODE>				
D01	8-719-109-89	DIODE RD5.6ES-B2				
D02	8-719-110-36	DIODE RD13ES-B2				
D03	8-719-911-19	DIODE 1SS119				
D04	8-719-109-69	DIODE RD3.6ES-B2				
		<IC>				
IC01	8-759-972-41	IC MAB8461P-W136				
IC02	8-759-972-96	IC SAA5231-V6				
IC03	8-759-946-85	IC SAA5243E				
IC04	8-759-113-01	IC UPD4364CX-15L				
		<COIL>				
JW55	1-410-468-11	INDUCTOR	6.8UH			
L01	1-408-411-00	INDUCTOR	15UH			
L02	1-410-468-11	INDUCTOR	6.8UH			
L03	1-410-468-11	INDUCTOR	6.8UH			
L04	1-410-468-11	INDUCTOR	6.8UH			
L05	1-410-468-11	INDUCTOR	6.8UH			
L06	1-410-468-11	INDUCTOR	6.8UH			
		<TRANSISTOR>				
Q01	8-729-808-76	TRANSISTOR 2SD1913SA				
Q02	8-729-177-42	TRANSISTOR 2SD774-3				
Q03	8-729-900-80	TRANSISTOR DTC114ES				
Q04	8-729-119-78	TRANSISTOR 2SC2785-HFE				

REF.NO.	PART NO.	DESCRIPTION				REMARK
Q05	8-729-177-42	TRANSISTOR 2SD774-3				
Q06	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q07	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q09	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q10	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R01	1-215-867-00	METAL OXIDE	470	5%	1W	F
R02	1-249-425-11	CARBON	4.7K	5%	1/4W	
R04	1-215-867-00	METAL OXIDE	470	5%	1W	F
R05	1-247-700-11	CARBON	100	5%	1/4W	
R06	1-249-417-11	CARBON	1K	5%	1/4W	
R07	1-249-405-11	CARBON	100	5%	1/4W	
R08	1-249-411-11	CARBON	330	5%	1/4W	
R09	1-249-438-11	CARBON	56K	5%	1/4W	
R13	1-249-405-11	CARBON	100	5%	1/4W	
R14	1-249-405-11	CARBON	100	5%	1/4W	
R15	1-247-903-00	CARBON	1M	5%	1/4W	
R16	1-249-425-11	CARBON	4.7K	5%	1/4W	
R17	1-249-417-11	CARBON	1K	5%	1/4W	
R18	1-249-425-11	CARBON	4.7K	5%	1/4W	
R20	1-249-414-11	CARBON	560	5%	1/4W	
R27	1-249-408-11	CARBON	180	5%	1/4W	
R28	1-249-408-11	CARBON	180	5%	1/4W	
R29	1-249-408-11	CARBON	180	5%	1/4W	
R30	1-247-713-11	CARBON	1K	5%	1/4W	
R31	1-247-713-11	CARBON	1K	5%	1/4W	
R32	1-247-713-11	CARBON	1K	5%	1/4W	
R37	1-249-405-11	CARBON	100	5%	1/4W	
R38	1-249-416-11	CARBON	820	5%	1/4W	
R40	1-249-425-11	CARBON	4.7K	5%	1/4W	
R41	1-249-413-11	CARBON	470	5%	1/4W	
R43	1-249-420-11	CARBON	1.8K	5%	1/4W	
R45	1-247-713-11	CARBON	1K	5%	1/4W	
R47	1-247-699-11	CARBON	82	5%	1/4W	
		<VARIABLE RESISTOR>				
RV01	1-228-991-00	RES, ADJ, CARBON 2.2K				
	*3-710-578-01	COVER, VOLUME, 6 MOLD; RV01				
		<CRYSTAL>				
X01	1-527-734-00	VIBRATOR, CRYSTAL				
X02	1-567-905-11	VIBRATOR, CRYSTAL				
X03	1-567-686-11	OSCILLATOR, CERAMIC				

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*1-628-824-11 H3 BOARD
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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CNH03	*1-564-510-11	PLUG, CONNECTOR 7P	
		<DIODE>	
D1	8-719-812-41	DIODE TLR124	
	*4-364-023-00	HOLDER, LED; D1	
D3	8-719-812-41	DIODE TLR124	
	*4-364-023-00	HOLDER, LED; D3	
D4	8-719-812-41	DIODE TLR124	

H3 K

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*4-364-023-00	HOLDER, LED; D4	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-741-138-70	IC BX-1387	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1385-049-A	K BOARD, COMPLETE *****************	
	*4-377-007-01	CASE (UPPER LID), SHIELD	
	*4-377-009-01	CASE (MAIN), SHIELD	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C00A	1-101-005-00	CERAMIC	0.022MF		50V
C001	1-126-103-11	ELECT	470MF	20%	16V
C002	1-126-103-11	ELECT	470MF	20%	16V
C005	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C006	1-101-004-00	CERAMIC	0.01MF		50V
C007	1-102-953-00	CERAMIC	18PF	5%	50V
C008	1-102-961-00	CERAMIC	27PF	5%	50V
C009	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C010	1-102-980-00	CERAMIC	270PF	5%	50V
C011	1-106-383-00	MYLAR	0.047MF	10%	100V
C012	1-136-165-00	MYLAR	0.1MF	10%	50V
C013	1-101-361-00	CERAMIC	150PF	5%	50V
C014	1-126-101-11	ELECT	100MF	20%	16V
C015	1-101-004-00	CERAMIC	0.01MF		50V
C017	1-124-556-11	ELECT	2200MF	20%	16V
C018	1-126-101-11	ELECT	100MF	20%	16V
C020	1-124-637-11	ELECT	1000MF	20%	50V
C025	1-124-477-11	ELECT	47MF	20%	16V
C026	1-124-477-11	ELECT	47MF	20%	16V
C027	1-124-463-00	ELECT	0.1MF	20%	50V
C028	1-124-477-11	ELECT	47MF	20%	16V
C029	1-123-875-11	ELECT	10MF	20%	50V
C032	1-136-165-00	MYLAR	0.1MF	10%	50V
C061	1-101-004-00	CERAMIC	0.01MF		50V
C090	1-102-074-00	CERAMIC	0.001MF	10%	50V
C201	1-124-477-11	ELECT	47MF	20%	16V
C202	1-124-902-00	ELECT	0.47MF	20%	50V
C203	1-124-477-11	ELECT	47MF	20%	16V
C204	1-124-902-00	ELECT	0.47MF	20%	50V
C205	1-124-927-11	ELECT	4.7MF	20%	50V
C206	1-126-101-11	ELECT	100MF	20%	16V
C206	1-126-101-11	ELECT	100MF	20%	16V
C207	1-124-927-11	ELECT	4.7MF	20%	50V
C208	1-124-902-00	ELECT	0.47MF	20%	50V
C209	1-102-114-00	CERAMIC	470PF	10%	50V
C210	1-102-114-00	CERAMIC	470PF	10%	50V
C211	1-124-925-11	ELECT	2.2MF	20%	50V
C212	1-124-925-11	ELECT	2.2MF	20%	50V
C213	1-126-233-11	ELECT	22MF	20%	50V
C214	1-106-363-00	MYLAR	0.0068MF	10%	100V
C215	1-124-119-00	ELECT	330MF	20%	16V
C217	1-106-363-00	MYLAR	0.0068MF	10%	100V
C218	1-106-375-12	MYLAR	0.022MF	10%	100V
C219	1-106-375-12	MYLAR	0.022MF	10%	100V
C220	1-106-355-12	MYLAR	0.0033MF	10%	100V
C221	1-106-355-12	MYLAR	0.0033MF	10%	100V
C222	1-106-375-12	MYLAR	0.022MF	10%	100V
C223	1-106-375-12	MYLAR	0.022MF	10%	100V
C224	1-106-367-00	MYLAR	0.01MF	10%	100V
C225	1-136-173-00	FILM	0.47MF	5%	50V
C226	1-136-173-00	FILM	0.47MF	5%	50V
C227	1-106-375-12	MYLAR	0.022MF	10%	100V
C228	1-106-379-12	MYLAR	0.033MF	10%	100V
C229	1-106-371-00	MYLAR	0.015MF	10%	100V
C230	1-106-371-00	MYLAR	0.015MF	10%	100V
C231	1-124-902-00	ELECT	0.47MF	20%	50V
C232	1-123-875-11	ELECT	10MF	20%	50V
C234	1-102-114-00	CERAMIC	470PF	10%	50V
C237	1-102-114-00	CERAMIC	470PF	10%	50V
C239	1-124-902-00	ELECT	0.47MF	20%	50V
C240	1-124-927-11	ELECT	4.7MF	20%	50V
C241	1-124-927-11	ELECT	4.7MF	20%	50V
C242	1-102-963-00	CERAMIC	33PF	5%	50V
C243	1-106-359-00	MYLAR	0.0047MF	10%	100V
C244	1-106-343-00	MYLAR	0.001MF	10%	100V
C245	1-124-119-00	ELECT	330MF	20%	16V
C246	1-124-477-11	ELECT	47MF	20%	16V
C247	1-102-963-00	CERAMIC	33PF	5%	50V
C248	1-102-963-00	CERAMIC	33PF	5%	50V
C249	1-123-875-11	ELECT	10MF	20%	50V
C250	1-124-463-00	ELECT	0.1MF	20%	50V
C251	1-136-169-00	FILM	0.22MF	5%	50V
C252	1-123-875-11	ELECT	10MF	20%	50V
C253	1-124-607-11	ELECT	2200MF	20%	50V
C254	1-123-875-11	ELECT	10MF	20%	50V
C255	1-124-463-00	ELECT	0.1MF	20%	50V
C256	1-136-169-00	FILM	0.22MF	5%	50V
C257	1-123-875-11	ELECT	10MF	20%	50V
C258	1-124-607-11	ELECT	2200MF	20%	50V
C259	1-136-159-00	FILM	0.033MF	5%	50V
C260	1-136-159-00	FILM	0.033MF	5%	50V
C290	1-102-112-00	CERAMIC	330PF	10%	50V
C291	1-102-112-00	CERAMIC	330PF	10%	50V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNK01	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CNK02	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CNK03	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P	
CNK04	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P	
CNK05	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P	
CNK06	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P	
CNK07	*1-564-507-11	PLUG, CONNECTOR 4P	
CNK08	*1-564-513-11	PLUG, CONNECTOR 10P	
CNK09	*1-564-514-11	PLUG, CONNECTOR 11P	
CNK11	*1-564-508-11	PLUG, CONNECTOR 5P	
CNK12	*1-564-506-11	PLUG, CONNECTOR 3P	
CNK16	*1-564-510-11	PLUG, CONNECTOR 7P	
CNK17	*1-564-510-11	PLUG, CONNECTOR 7P	
CNK18	*1-564-507-11	PLUG, CONNECTOR 4P	
CNK20	*1-564-512-11	PLUG, CONNECTOR 9P	
CNK22	*1-564-505-11	PLUG, CONNECTOR 2P	
CNK23	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CNK24	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D002	8-719-109-89	DIODE RD5.6ES-B2	
D003	8-719-109-89	DIODE RD5.6ES-B2	
D004	8-719-911-19	DIODE 1SS119	
D005	8-719-911-19	DIODE 1SS119	
D006	8-719-911-19	DIODE 1SS119	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D007	8-719-911-19	DIODE 1SS119	
D011	8-719-109-71	DIODE RD3.9ES-B1	
D012	8-719-911-19	DIODE 1SS119	
D013	8-719-911-19	DIODE 1SS119	
D201	8-719-110-14	DIODE RD9.1ES-B3	
D202	8-719-110-14	DIODE RD9.1ES-B3	
D203	8-719-110-04	DIODE RD7.5ES-B3	
D204	8-719-110-04	DIODE RD7.5ES-B3	
D205	8-719-911-19	DIODE 1SS119	
D206	8-719-911-19	DIODE 1SS119	
D207	8-719-911-19	DIODE 1SS119	
D208	8-719-911-19	DIODE 1SS119	
D209	8-719-911-19	DIODE 1SS119	
		<IC>	
IC001	8-759-631-99	IC M37100M8-616SP	
IC003	8-759-972-43	IC PCD8582	
IC005	8-759-157-40	IC UPC574J	
IC201	8-759-013-17	IC TDA6200	
IC202	8-759-132-40	IC UPC324C	
IC203	8-759-922-40	IC LM1875T	
IC204	8-759-922-40	IC LM1875T	
		<COIL>	
L001	1-410-476-11	INDUCTOR 33UH	
		<TRANSISTOR>	
Q001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q003	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q004	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q005	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q006	8-729-808-76	TRANSISTOR 2SD1913SA-Q	
Q009	8-729-900-89	TRANSISTOR DTC144ES	
Q013	8-729-900-89	TRANSISTOR DTC144ES	
Q014	8-729-900-89	TRANSISTOR DTC144ES	
Q017	8-729-900-89	TRANSISTOR DTC144ES	
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q204	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q205	8-729-900-89	TRANSISTOR DTC144ES	
Q206	8-729-115-30	TRANSISTOR 2SK105A-30	
Q207	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q208	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q209	8-729-900-89	TRANSISTOR DTC144ES	
Q220	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R001	1-249-429-11	CARBON 10K 5% 1/4W	
R003	1-249-421-11	CARBON 2.2K 5% 1/4W	
R004	1-249-421-11	CARBON 2.2K 5% 1/4W	
R005	1-249-421-11	CARBON 2.2K 5% 1/4W	
R006	1-249-421-11	CARBON 2.2K 5% 1/4W	
R007	1-249-421-11	CARBON 2.2K 5% 1/4W	
R008	1-249-421-11	CARBON 2.2K 5% 1/4W	
R009	1-249-421-11	CARBON 2.2K 5% 1/4W	
R010	1-249-425-11	CARBON 4.7K 5% 1/4W	
R011	1-247-704-11	CARBON 220 5% 1/4W	
R012	1-249-409-11	CARBON 220 5% 1/4W	
R013	1-247-713-11	CARBON 1K 5% 1/4W	
R014	1-247-713-11	CARBON 1K 5% 1/4W	
R015	1-247-713-11	CARBON 1K 5% 1/4W	
R016	1-247-713-11	CARBON 1K 5% 1/4W	
R017	1-249-409-11	CARBON 220 5% 1/4W	
R018	1-249-413-11	CARBON 470 5% 1/4W	
R019	1-249-431-11	CARBON 15K 5% 1/4W	
R020	1-249-421-11	CARBON 2.2K 5% 1/4W	
R024	1-249-437-11	CARBON 47K 5% 1/4W	
R025	1-249-437-11	CARBON 47K 5% 1/4W	
R026	1-249-405-11	CARBON 100 5% 1/4W	
R027	1-249-405-11	CARBON 100 5% 1/4W	
R028	1-249-417-11	CARBON 1K 5% 1/4W	
R029	1-249-417-11	CARBON 1K 5% 1/4W	
R030	1-249-417-11	CARBON 1K 5% 1/4W	
R031	1-249-429-11	CARBON 10K 5% 1/4W	
R032	1-249-433-11	CARBON 22K 5% 1/4W	
R033	1-249-429-11	CARBON 10K 5% 1/4W	
R034	1-249-417-11	CARBON 1K 5% 1/4W	
R035	1-249-429-11	CARBON 10K 5% 1/4W	
R039	1-249-409-11	CARBON 220 5% 1/4W	
R040	1-249-417-11	CARBON 1K 5% 1/4W	
R042	1-249-429-11	CARBON 10K 5% 1/4W	
R043	1-247-707-11	CARBON 390 5% 1/4W	
R044	1-247-707-11	CARBON 390 5% 1/4W	
R045	1-249-429-11	CARBON 10K 5% 1/4W	
R046	1-249-435-11	CARBON 33K 5% 1/4W	
R047	1-249-423-11	CARBON 3.3K 5% 1/4W	
R048	1-249-441-11	CARBON 100K 5% 1/4W	
R049	1-249-413-11	CARBON 470 5% 1/4W	
R050	1-249-417-11	CARBON 1K 5% 1/4W	
R051	1-249-419-11	CARBON 1.5K 5% 1/4W	
R052	1-249-460-11	CARBON 15K 5% 1/4W	
R053	1-249-429-11	CARBON 10K 5% 1/4W	
R054	1-249-411-11	CARBON 330 5% 1/4W	
R055	1-249-417-11	CARBON 1K 5% 1/4W	
R056	1-249-417-11	CARBON 1K 5% 1/4W	
R057	1-249-417-11	CARBON 1K 5% 1/4W	
R058	1-249-417-11	CARBON 1K 5% 1/4W	
R059	1-249-417-11	CARBON 1K 5% 1/4W	
R060	1-249-417-11	CARBON 1K 5% 1/4W	
R061	1-249-417-11	CARBON 1K 5% 1/4W	
R063	1-249-409-11	CARBON 220 5% 1/4W	
R064	1-249-429-11	CARBON 10K 5% 1/4W	
R065	1-249-429-11	CARBON 10K 5% 1/4W	
R070	1-249-413-11	CARBON 470 5% 1/4W	
R077	1-249-421-11	CARBON 2.2K 5% 1/4W	
R078	1-249-429-11	CARBON 10K 5% 1/4W	
R079	1-249-422-11	CARBON 2.7K 5% 1/4W	
R080	1-249-422-11	CARBON 2.7K 5% 1/4W	
R081	1-249-429-11	CARBON 10K 5% 1/4W	
R085	1-249-417-11	CARBON 1K 5% 1/4W	
R086	1-249-409-11	CARBON 220 5% 1/4W	
R090	1-249-429-11	CARBON 10K 5% 1/4W	
R093	1-247-721-11	CARBON 4.7K 5% 1/4W	
R093	1-249-424-11	CARBON 3.9K 5% 1/4W	
R095	1-249-425-11	CARBON 4.7K 5% 1/4W	
R201	1-249-441-11	CARBON 100K 5% 1/4W	
R202	1-249-425-11	CARBON 4.7K 5% 1/4W	
R203	1-249-441-11	CARBON 100K 5% 1/4W	
R204	1-249-435-11	CARBON 33K 5% 1/4W	
R205	1-249-435-11	CARBON 33K 5% 1/4W	
R206	1-249-423-11	CARBON 3.3K 5% 1/4W	
R207	1-249-423-11	CARBON 3.3K 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R209	1-249-433-11	CARBON	22K	5%	1/4W	
R210	1-249-431-11	CARBON	15K	5%	1/4W	
R211	1-249-441-11	CARBON	100K	5%	1/4W	
R212	1-249-433-11	CARBON	22K	5%	1/4W	
R213	1-249-431-11	CARBON	15K	5%	1/4W	
R214	1-247-704-11	CARBON	220	5%	1/4W	
R215	1-249-433-11	CARBON	22K	5%	1/4W	
R216	1-249-433-11	CARBON	22K	5%	1/4W	
R217	1-249-431-11	CARBON	15K	5%	1/4W	
R218	1-247-704-11	CARBON	220	5%	1/4W	
R219	1-249-429-11	CARBON	10K	5%	1/4W	
R220	1-249-425-11	CARBON	4.7K	5%	1/4W	
R221	1-249-423-11	CARBON	3.3K	5%	1/4W	
R222	1-249-439-11	CARBON	68K	5%	1/4W	
R223	1-249-413-11	CARBON	470	5%	1/4W	
R224	1-249-413-11	CARBON	470	5%	1/4W	
R225	1-249-417-11	CARBON	1K	5%	1/4W	
R226	1-249-417-11	CARBON	1K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-423-11	CARBON	3.3K	5%	1/4W	
R228	1-249-431-11	CARBON	15K	5%	1/4W	
R229	1-249-441-11	CARBON	100K	5%	1/4W	
R230	1-249-441-11	CARBON	100K	5%	1/4W	
R231	1-249-439-11	CARBON	68K	5%	1/4W	
R232	1-249-441-11	CARBON	100K	5%	1/4W	
R233	1-249-437-11	CARBON	47K	5%	1/4W	
R234	1-249-437-11	CARBON	47K	5%	1/4W	
R235	1-249-411-11	CARBON	330	5%	1/4W	
R240	1-249-405-11	CARBON	100	5%	1/4W	
R241	1-249-437-11	CARBON	47K	5%	1/4W	
R242	1-249-437-11	CARBON	47K	5%	1/4W	
R243	1-249-425-11	CARBON	4.7K	5%	1/4W	
R244	1-249-405-11	CARBON	100	5%	1/4W	
R245	1-249-437-11	CARBON	47K	5%	1/4W	
R246	1-249-437-11	CARBON	47K	5%	1/4W	
R247	1-249-425-11	CARBON	4.7K	5%	1/4W	
R248	1-249-433-11	CARBON	22K	5%	1/4W	
R249	1-249-433-11	CARBON	22K	5%	1/4W	
R250	1-249-429-11	CARBON	10K	5%	1/4W	
R251	1-247-895-00	CARBON	470K	5%	1/4W	
R252	1-249-433-11	CARBON	22K	5%	1/4W	
R253	1-249-433-11	CARBON	22K	5%	1/4W	
R254	1-249-433-11	CARBON	22K	5%	1/4W	
R255	1-249-433-11	CARBON	22K	5%	1/4W	
R257	1-249-433-11	CARBON	22K	5%	1/4W	
R258	1-249-433-11	CARBON	22K	5%	1/4W	
R259	1-249-429-11	CARBON	10K	5%	1/4W	
R260	1-249-429-11	CARBON	10K	5%	1/4W	
R261	1-249-433-11	CARBON	22K	5%	1/4W	
R262	1-249-433-11	CARBON	22K	5%	1/4W	
R263	1-249-425-11	CARBON	4.7K	5%	1/4W	
R264	1-249-433-11	CARBON	22K	5%	1/4W	
R265	1-249-441-11	CARBON	100K	5%	1/4W	
R266	1-249-441-11	CARBON	100K	5%	1/4W	
R267	1-247-725-11	CARBON	10K	5%	1/4W	
R268	1-249-423-11	CARBON	3.3K	5%	1/4W	
R269	1-249-433-11	CARBON	22K	5%	1/4W	
R270	1-249-437-11	CARBON	47K	5%	1/4W	
R271	1-249-433-11	CARBON	22K	5%	1/4W	
R272	1-249-433-11	CARBON	22K	5%	1/4W	
R273	1-249-462-11	CARBON	22K	5%	1/4W	
R274	1-249-381-11	CARBON	1	5%	1/4W	F
R276	1-249-429-11	CARBON	10K	5%	1/4W	
R277	1-247-891-00	CARBON	330K	5%	1/4W	
R278	1-249-433-11	CARBON	22K	5%	1/4W	
R279	1-249-462-11	CARBON	22K	5%	1/4W	
R280	1-249-433-11	CARBON	22K	5%	1/4W	
R281	1-249-381-11	CARBON	1	5%	1/4W	F
R283	1-249-429-11	CARBON	10K	5%	1/4W	
R284	1-247-891-00	CARBON	330K	5%	1/4W	
R285	1-247-713-11	CARBON	1K	5%	1/4W	
R288	1-249-423-11	CARBON	3.3K	5%	1/4W	
R290	1-249-433-11	CARBON	22K	5%	1/4W	
R291	1-249-423-11	CARBON	3.3K	5%	1/4W	
R292	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R295	1-249-433-11	CARBON	22K	5%	1/4W	
R654	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R655	1-215-924-00	METAL OXIDE	15K	5%	3W	F
JW248	1-247-713-11	CARBON	1K	5%	1/4W	

<CRYSTAL>

X001	1-567-686-11	OSCILLATOR, CERAMIC

****

*A-1388-083-A J1 BOARD, COMPLETE
****

<CAPACITOR>

C1401	1-123-875-11	ELECT	10MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-102-824-00	CERAMIC	470PF	5%	50V
C1404	1-124-902-00	ELECT	0.47MF	20%	50V
C1405	1-102-824-00	CERAMIC	470PF	5%	50V
C1406	1-124-902-00	ELECT	0.47MF	20%	50V
C1407	1-124-477-11	ELECT	47MF	20%	16V
C1408	1-126-101-11	ELECT	100MF	20%	16V
C1409	1-126-233-11	ELECT	22MF	20%	50V
C1410	1-123-621-71	ELECT	10MF	20%	25V
C1411	1-123-621-71	ELECT	10MF	20%	25V
C1412	1-124-963-11	ELECT	33MF	20%	16V
C1413	1-126-101-11	ELECT	100MF	20%	16V
C1414	1-123-621-71	ELECT	10MF	20%	25V
C1415	1-124-902-00	ELECT	0.47MF	20%	50V
C1416	1-124-902-00	ELECT	0.47MF	20%	50V
C1417	1-124-120-11	ELECT	220MF	20%	16V
C1418	1-102-112-00	CERAMIC	330PF	10%	50V
C1419	1-102-112-00	CERAMIC	330PF	10%	50V
C1420	1-124-242-00	ELECT	33MF	20%	25V
C1421	1-124-963-11	ELECT	33MF	20%	16V
C1427	1-101-003-00	CERAMIC	0.0047MF		50V
C1428	1-101-003-00	CERAMIC	0.0047MF		50V
C1429	1-102-824-00	CERAMIC	470PF	5%	50V
C1430	1-102-824-00	CERAMIC	470PF	5%	50V
C1431	1-126-101-11	ELECT	100MF	20%	16V
C1432	1-126-101-11	ELECT	100MF	20%	16V
C1433	1-126-101-11	ELECT	100MF	20%	16V
C1440	1-123-875-11	ELECT	10MF	20%	50V
C1441	1-123-621-71	ELECT	10MF	20%	25V
C1442	1-102-824-00	CERAMIC	470PF	5%	50V
C1443	1-124-902-00	ELECT	0.47MF	20%	50V
C1444	1-102-824-00	CERAMIC	470PF	5%	50V
C1445	1-124-902-00	ELECT	0.47MF	20%	50V
C1449	1-124-477-11	ELECT	47MF	20%	16V
C1451	1-124-477-11	ELECT	47MF	20%	16V
C1452	1-102-976-00	CERAMIC	180PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1455	1-124-477-11	ELECT 47MF 20% 16V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNJ01	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
CNJ02	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
CNJ03	1-568-016-11	SOCKET 21P	
CNJ04	1-565-931-11	TERMINAL BLOCK, S 3P	
CNJ05	1-565-840-11	PIN JACK BLOCK 6P	
CNJ06	1-537-187-11	TERMINAL, PUSH (4P)	
CNJ07	*1-564-519-11	PLUG, CONNECTOR 4P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1401	8-719-911-19	DIODE 1SS119	
D1403	8-719-110-04	DIODE RD7.5ES-B3	
D1406	8-719-110-04	DIODE RD7.5ES-B3	
D1407	8-719-110-18	DIODE RD10ES-B3	
D1408	8-719-110-14	DIODE RD9.1ES-B3	
D1409	8-719-110-14	DIODE RD9.1ES-B3	
D1410	8-719-110-14	DIODE RD9.1ES-B3	
D1418	8-719-110-04	DIODE RD7.5ES-B3	
D1419	8-719-911-19	DIODE 1SS119	
D1421	8-719-110-04	DIODE RD7.5ES-B3	
D1422	8-719-110-04	DIODE RD7.5ES-B3	
D1423	8-719-110-04	DIODE RD7.5ES-B3	
D1424	8-719-911-19	DIODE 1SS119	
D1425	8-719-911-19	DIODE 1SS119	
D1426	8-719-911-19	DIODE 1SS119	
D1427	8-719-911-19	DIODE 1SS119	
D1428	8-719-911-19	DIODE 1SS119	
D1429	8-719-911-19	DIODE 1SS119	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1401	8-752-032-27	IC CXA1114P	
IC1404	8-759-800-81	IC LA7016	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L1401	1-410-470-11	INDUCTOR	10UH	
L1402	1-410-470-11	INDUCTOR	10UH	
L1405	1-410-470-11	INDUCTOR	10UH	
L1406	1-410-470-11	INDUCTOR	10UH	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1401	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1402	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1405	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1406	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1407	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1410	8-729-119-78	TRANSISTOR 2SC2785-HFE	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1401	1-249-435-11	CARBON	33K	5%	1/4W	
R1402	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1403	1-249-437-11	CARBON	47K	5%	1/4W	
R1404	1-249-413-11	CARBON	470	5%	1/4W	
R1407	1-247-895-00	CARBON	470K	5%	1/4W	
R1408	1-249-434-11	CARBON	27K	5%	1/4W	
R1409	1-249-411-11	CARBON	330	5%	1/4W	
R1410	1-249-434-11	CARBON	27K	5%	1/4W	
R1411	1-249-411-11	CARBON	330	5%	1/4W	
R1412	1-249-437-11	CARBON	47K	5%	1/4W	
R1413	1-247-895-00	CARBON	470K	5%	1/4W	
R1414	1-249-437-11	CARBON	47K	5%	1/4W	
R1417	1-249-404-00	CARBON	82	5%	1/4W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1419	1-249-417-11	CARBON	1K	5%	1/4W	
R1420	1-249-417-11	CARBON	1K	5%	1/4W	
R1421	1-249-416-11	CARBON	820	5%	1/4W	
R1422	1-249-417-11	CARBON	1K	5%	1/4W	
R1423	1-249-434-11	CARBON	27K	5%	1/4W	
R1424	1-249-434-11	CARBON	27K	5%	1/4W	
R1425	1-249-410-11	CARBON	270	5%	1/4W	
R1426	1-249-414-11	CARBON	560	5%	1/4W	
R1427	1-249-417-11	CARBON	1K	5%	1/4W	
R1428	1-247-895-00	CARBON	470K	5%	1/4W	
R1429	1-247-895-00	CARBON	470K	5%	1/4W	
R1430	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1433	1-249-409-11	CARBON	220	5%	1/4W	
R1434	1-247-698-11	CARBON	68	5%	1/4W	F
R1435	1-249-417-11	CARBON	1K	5%	1/4W	
R1436	1-249-433-11	CARBON	22K	5%	1/4W	
R1437	1-249-429-11	CARBON	10K	5%	1/4W	
R1440	1-249-416-11	CARBON	820	5%	1/4W	
R1441	1-249-416-11	CARBON	820	5%	1/4W	
R1442	1-249-437-11	CARBON	47K	5%	1/4W	
R1443	1-249-437-11	CARBON	47K	5%	1/4W	
R1444	1-249-409-11	CARBON	220	5%	1/4W	
R1445	1-249-409-11	CARBON	220	5%	1/4W	
R1447	1-249-409-11	CARBON	220	5%	1/4W	
R1448	1-249-409-11	CARBON	220	5%	1/4W	
R1449	1-249-405-11	CARBON	100	5%	1/4W	
R1450	1-249-404-00	CARBON	82	5%	1/4W	
R1452	1-249-409-11	CARBON	220	5%	1/4W	
R1453	1-249-404-00	CARBON	82	5%	1/4W	
R1455	1-247-895-00	CARBON	470K	5%	1/4W	
R1456	1-249-434-11	CARBON	27K	5%	1/4W	
R1457	1-247-895-00	CARBON	470K	5%	1/4W	
R1458	1-249-463-11	CARBON	27K	5%	1/4W	
R1463	1-249-417-11	CARBON	1K	5%	1/4W	
R1464	1-249-404-00	CARBON	82	5%	1/4W	
R1465	1-249-405-11	CARBON	100	5%	1/4W	
R1467	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1468	1-249-405-11	CARBON	100	5%	1/4W	
R1469	1-249-429-11	CARBON	10K	5%	1/4W	
R1473	1-249-440-11	CARBON	82K	5%	1/4W	
R1481	1-249-404-00	CARBON	82	5%	1/4W	
R1483	1-249-403-11	CARBON	68	5%	1/4W	
R1484	1-249-413-11	CARBON	470	5%	1/4W	
R1485	1-249-430-11	CARBON	12K	5%	1/4W	
R1486	1-247-804-11	CARBON	75	5%	1/4W	
R1487	1-249-399-11	CARBON	33	5%	1/4W	
R1488	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1489	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1501	1-249-428-11	CARBON	8.2K	5%	1/4W	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S1401	1-571-362-11	SWITCH, TACTIL	
S1402	1-571-362-11	SWITCH, TACTIL	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

MISCELLANEOUS

REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-466-096-11	PANEL BLOCK	
	1-466-097-11	PANEL BLOCK	
	⚠ 1-451-313-12	DEFLECTION YOKE (SY-191)	
	1-452-032-00	MAGNET, DISK; 10MM ϕ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
	⚠ 1-563-204-13	SOCKET, ANTENNA (PAL/SECAM)	
	⚠ 1-574-380-11	CORD, POWER (WITH CONNECTOR)	
L901	⚠ 1-426-408-11	COIL, DEMAGNETIZATION	
V901	⚠ 8-733-821-05	PICTURE TUBE (A68JYK10X)	

* * *

ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
A-1470-864-A	COMMANDER ASSY (RM-679MT)	
⚠ 1-417-149-11	MIXER, U/V	
1-506-401-00	ADAPTOR, CONVERSION	
1-559-238-11	CORD, SPEAKER CONNECTION	
3-786-945-51	MANUAL, INSTRUCTION	
*4-381-155-01	BAG, PROTECTION	
*4-383-108-01	BAND	
*4-391-747-01	CUSHION (UPPER) (ASSY)	
*4-391-748-01	CUSHION (LOWER) (ASSY)	
*4-392-422-01	TRAY .	
*4-392-426-01	INDIVIDUAL CARTON	

English
89BU0407-1
Printed in Japan
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9-964-238-01

Sony Corporation
TV Group

KV-2900T
RM-679MT/SS-XT291

SONY
SERVICE MANUAL

GE Model
Serial No. 2,001,041 and later
Chassis No. SCC-C41A-A

SUPPLEMENT-1

File this supplement with the Service Manual.

INTRODUCTION

A, K, J1 Boards modification

⬚ **: modified portion**

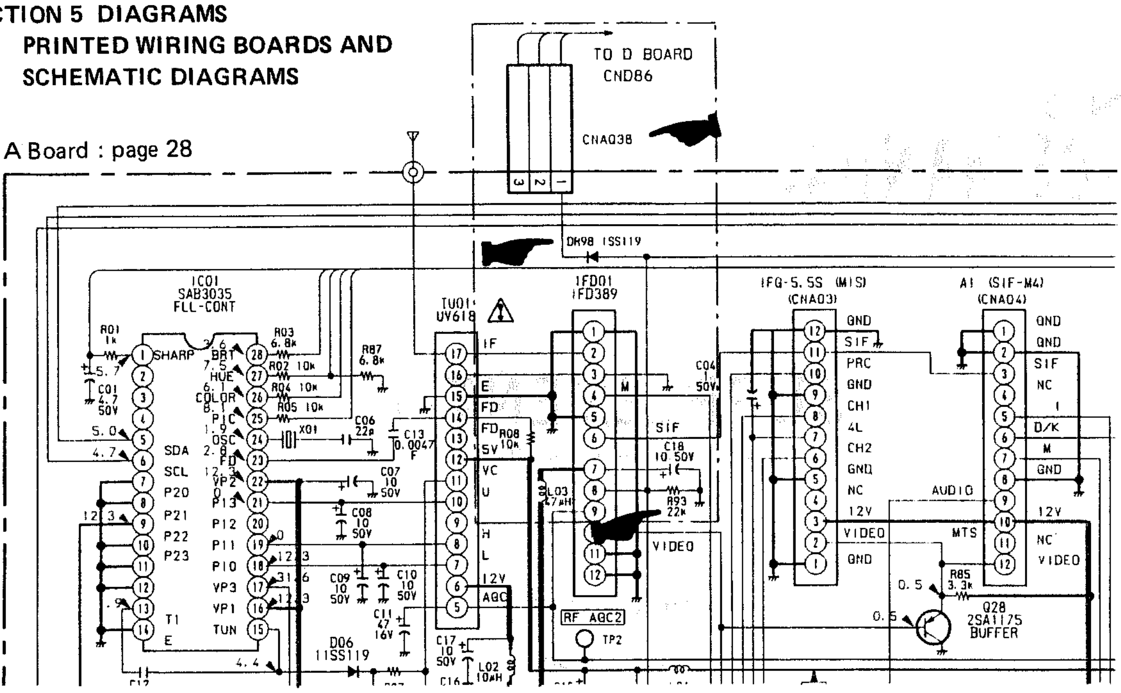
☛ **: Indicate modified portion**

MICROFILM

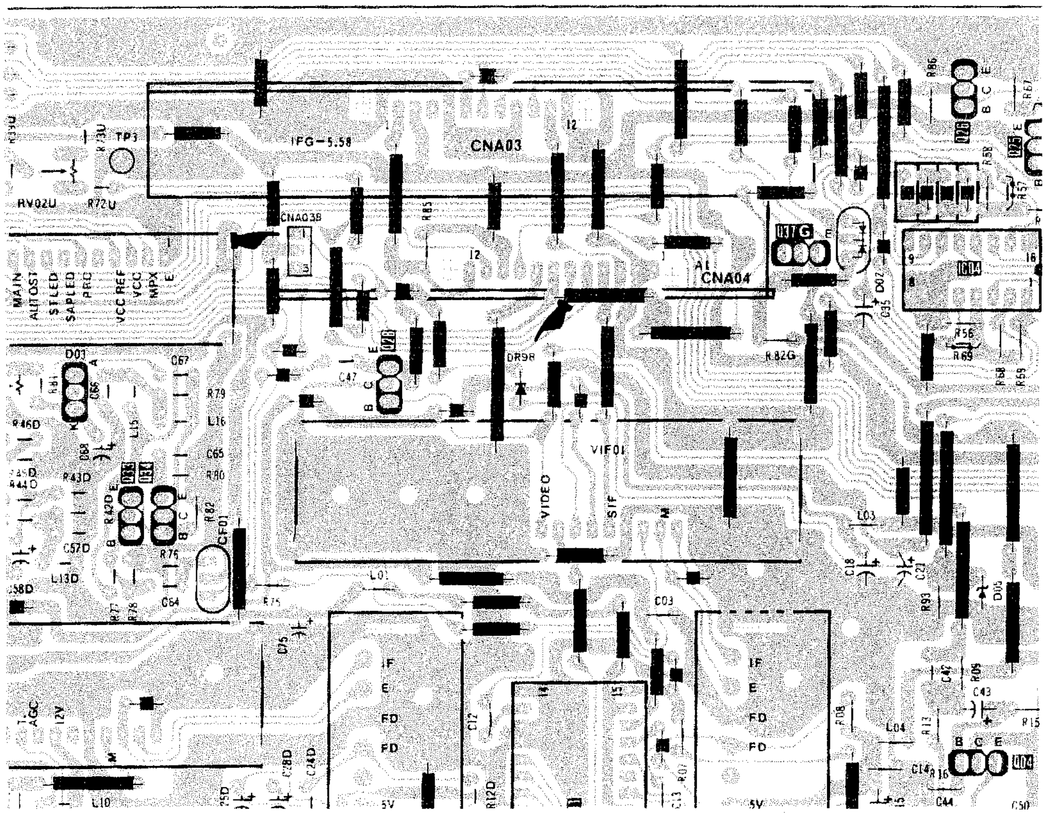
SECTION 5 DIAGRAMS

5-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

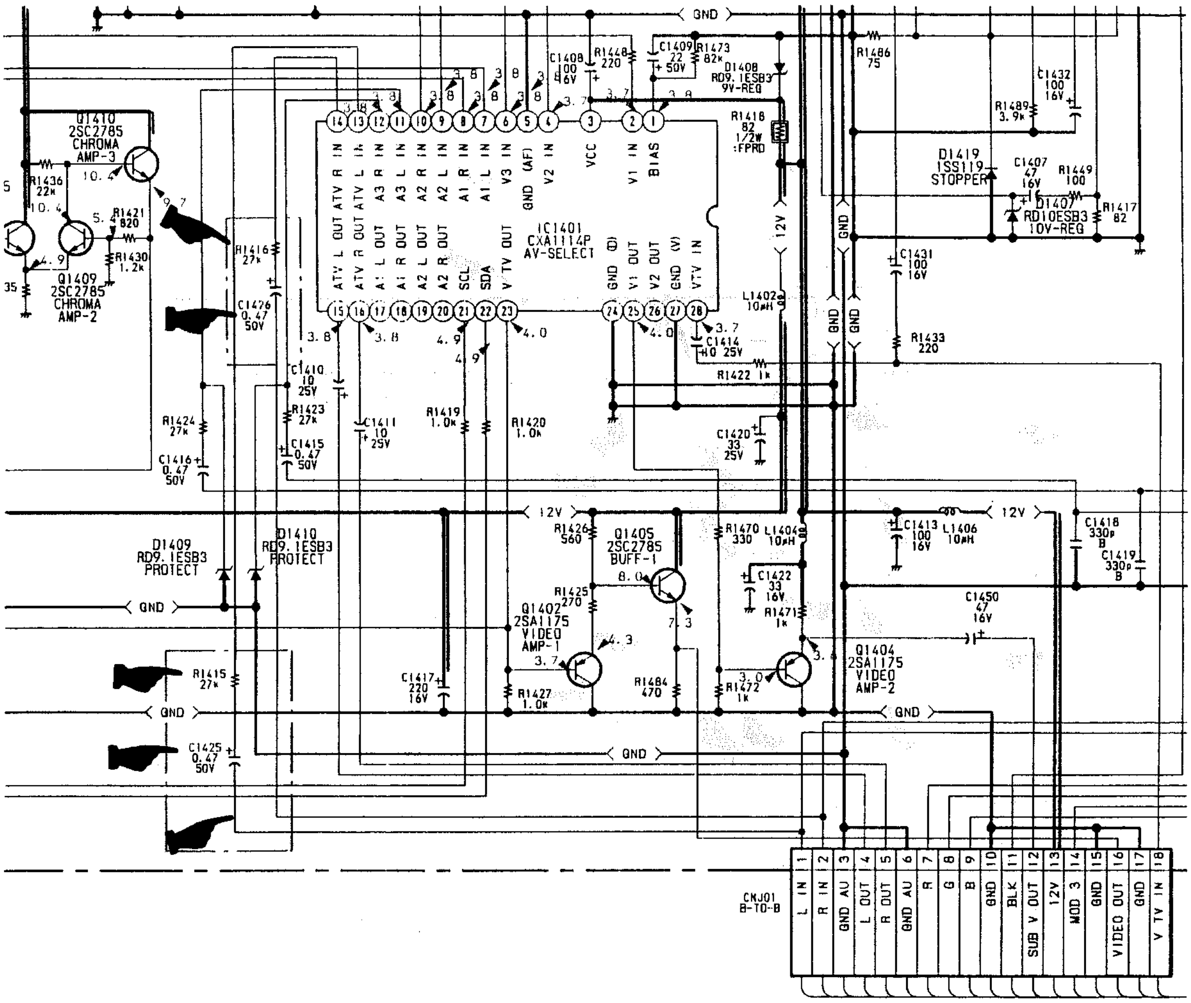
A Board : page 28


TO D BOARD
CND86
CNAQ38
DH98 1SS119
IC01
SAB3035
FLL-CONT
SHARP
SDA
SCL
P20
P21
P22
P23
T1
E
BRT
HUE
COLOR
PIC
OSC
FD
VP2
P13
P12
P11
P10
VP3
VP1
TUN
TU01
UV618
IF
E
FD
FD
5V
VC
U
H
L
12V
AGC
IFD01
IFD389
M
SIF
VIDEO
RF AGC2
TP2
IFG-5.5S (MIS)
(CNA03)
GND
SIF
PRC
GND
CH1
4L
CH2
GND
NC
12V
VIDEO
GND
A1 (SIF-M4)
(CNA04)
GND
GND
SIF
NC
I
D/K
M
GND
12V
NC
VIDEO
AUDIO
MTS
R85
3.3k
Q28
2SA1175
BUFFER
D06
1SS119
L03
L02
R08 10k
R87 6.8k
R93 22k
C18 10 50V

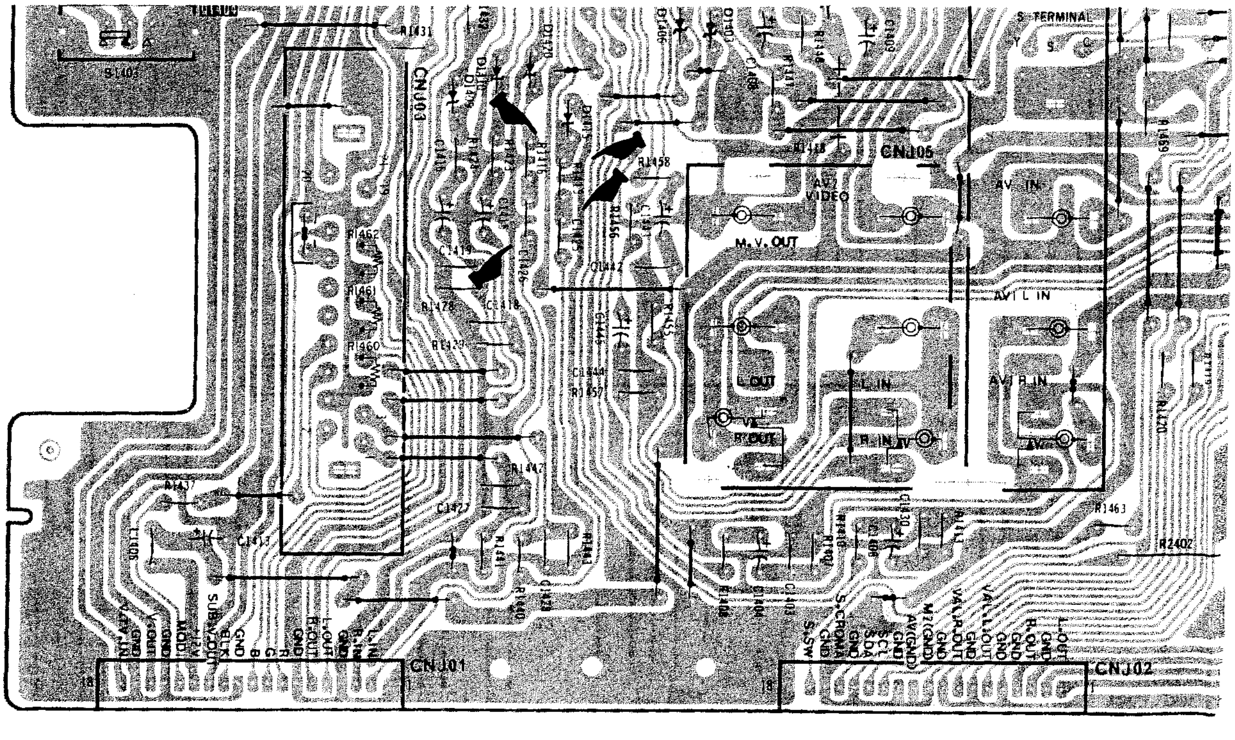
A Board : page 30


IFG-5.5S
CNA03
CNA038
A1
CNA04
TP3
RV02U
R72U
MAIN
AUTOST
STLED
SAPLED
PRO
VCC REF
VCC
MPX
E
D01
DR98
VIF01
VIDEO
SIF
M
CF01
L01
C03
L03
IF
E
FD
FD
5V
AGC
12V
L10
IC04
D07
D05
B C E

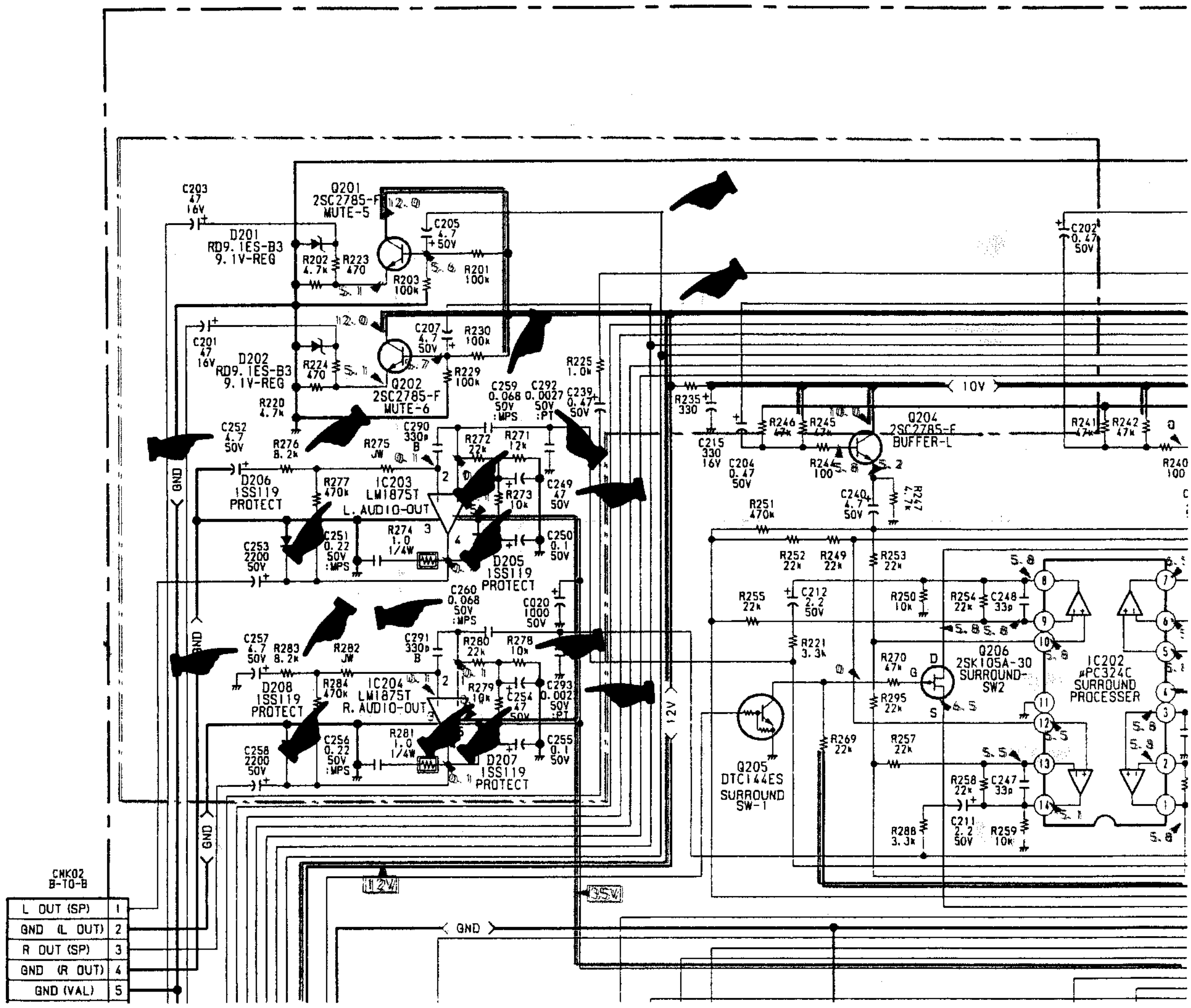
J1 Board : page 37, 38


GND
Q1410
2SC2785
CHROMA
AMP-3
Q1409
2SC2785
CHROMA
AMP-2
R1436 22k
R1421 820
R1430 1.2k
R1416 27k
C1476 0.47 50V
C1410 10 25V
R1423 27k
R1424 27k
C1416 0.47 50V
C1415 0.47 50V
C1411 10 25V
R1419 1.0k
R1420 1.0k
IC1401
CXA1114P
AV-SELECT
ATV R IN
ATV L IN
A3 R IN
A3 L IN
A2 R IN
A2 L IN
A1 R IN
A1 L IN
V3 IN
GND (AF)
V2 IN
VCC
V1 IN
BIAS
ATV L OUT
ATV R OUT
A1 L OUT
A1 R OUT
A2 L OUT
A2 R OUT
SCL
SDA
V TV OUT
GND (D)
V1 OUT
V2 OUT
GND (V)
V TV IN
C1408 100 16V
R1448 220
C1409 22 50V
R1473 82k
D1408 RD9.1ESB3 9V-REG
R1418 82 1/2W :FPRD
R1486 75
C1432 100 16V
R1489 3.9k
D1419 1SS119 STOPPER
C1407 47 16V
R1449 100
D1407 RD10ESB3 10V-REG
R1417 82
C1431 100 16V
R1433 220
12V
L1402 10μH
C1414 10 25V
R1422 1k
C1420 33 25V
D1409 RD9.1ESB3 PROTECT
D1410 RD9.1ESB3 PROTECT
R1426 560
Q1405 2SC2785 BUFF-1
R1425 270
Q1402 2SA1175 VIDEO AMP-1
R1470 330
L1404 10μH
C1413 100 16V
L1406 10μH
C1418 330p B
C1419 330p B
C1422 33 16V
R1471 1k
C1450 47 16V
Q1404 2SA1175 VIDEO AMP-2
R1415 27k
C1417 220 16V
R1427 1.0k
R1484 470
R1472 1k
C1425 0.47 50V
CNJ01 B-TO-B
L IN
R IN
GND AU
L OUT
R OUT
GND AU
R
G
B
GND
BLK
SUB V OUT
12V
MOD 3
GND
VIDEO OUT
GND
V TV IN

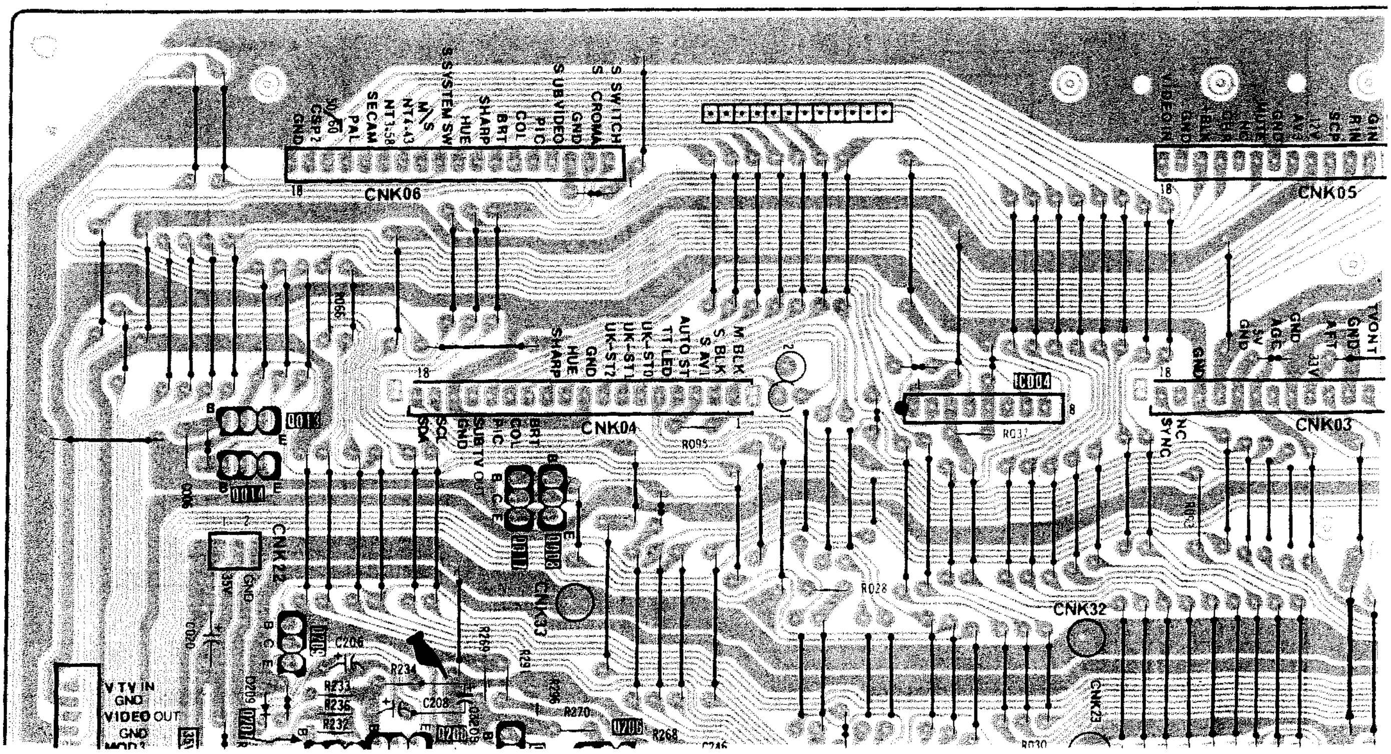
J1 Board : page 41


S-TERMINAL
Y S C
S1401
CNJ03
CNJ05
AV1 VIDEO
AV IN
M.V. OUT
AV1 L IN
L OUT
L IN
AV1 R IN
R OUT
R IN
CNJ01
CNJ02
R1463
R2402

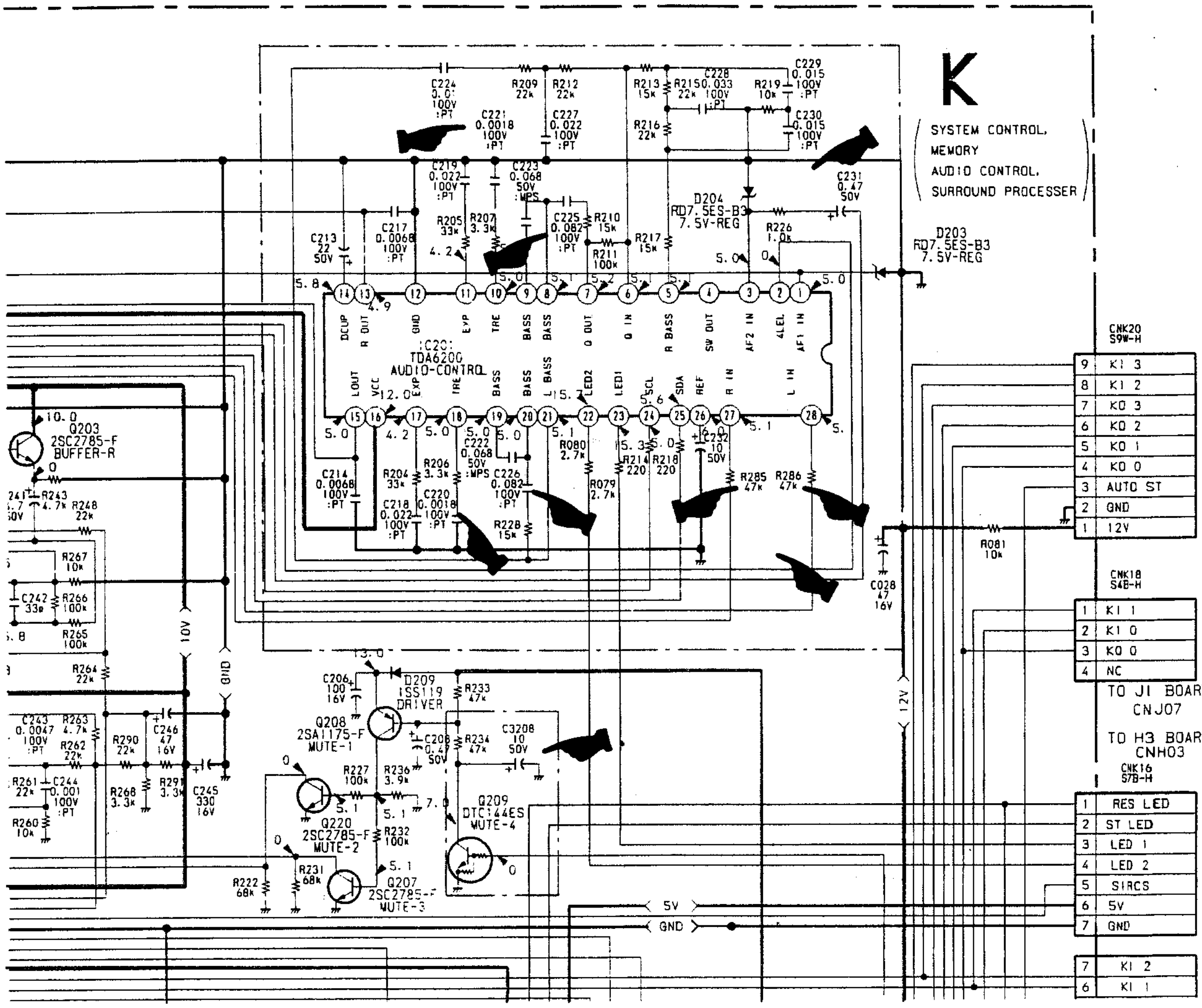
K board : page 31


Q201
2SC2785-F
MUTE-5
D201
RD9.1ES-B3
9.1V-REG
C203
47
16V
R202 4.7k
R223 470
C205 4.7 50V
R203 100k
R201 100k
C201 47 16V
D202
RD9.1ES-B3
9.1V-REG
R224 470
C207 4.7 50V
R230 100k
R229 100k
Q202
2SC2785-F
MUTE-6
R220 4.7k
R225 1.0k
C259 0.068 50V :MPS
C292 0.0027 50V :PT
C239 0.47 50V
C252 4.7 50V
R276 8.2k
R275 JW
C290 330p B
R272 22k
R271 12k
D206
1SS119
PROTECT
R277 470k
IC203
LM1875T
L. AUDIO-OUT
R273 10k
C249 47 50V
C253 2200 50V
C251 0.22 50V :MPS
R274 1.0 1/4W
C250 0.1 50V
D205
1SS119
PROTECT
C260 0.068 50V :MPS
C020 1000 50V
C257 4.7 50V
R283 8.2k
R282 JW
C291 330p B
R280 22k
R278 10k
D208
1SS119
PROTECT
R284 470k
IC204
LM1875T
R. AUDIO-OUT
R279 10k
C254 47 50V
C293 0.0027 :PT
C258 2200 50V
C256 0.22 50V :MPS
R281 1.0 1/4W
C255 0.1 50V
D207
1SS119
PROTECT
GND
12V
35V
C202 0.47 50V
R235 330
C215 330 16V
C204 0.47 50V
R246 47k
R245 47k
Q204
2SC2785-F
BUFFER-L
R244 100
C240 4.7 50V
R247 4.7k
10V
R241 47k
R242 47k
R240 100
R251 470k
R252 22k
R249 22k
R253 22k
R255 22k
C212 2.2 50V
R221 3.3k
R250 10k
R254 22k
C248 33p
R270 47k
Q206
2SK105A-30
SURROUND-SW2
R295 22k
IC202
μPC324C
SURROUND PROCESSER
Q205
DTC144ES
SURROUND SW-1
R269 22k
R257 22k
R258 22k
C247 33p
R288 3.3k
C211 2.2 50V
R259 10k
CNK02
B-TO-B
1 L OUT (SP)
2 GND (L OUT)
3 R OUT (SP)
4 GND (R OUT)
5 GND (VAL)

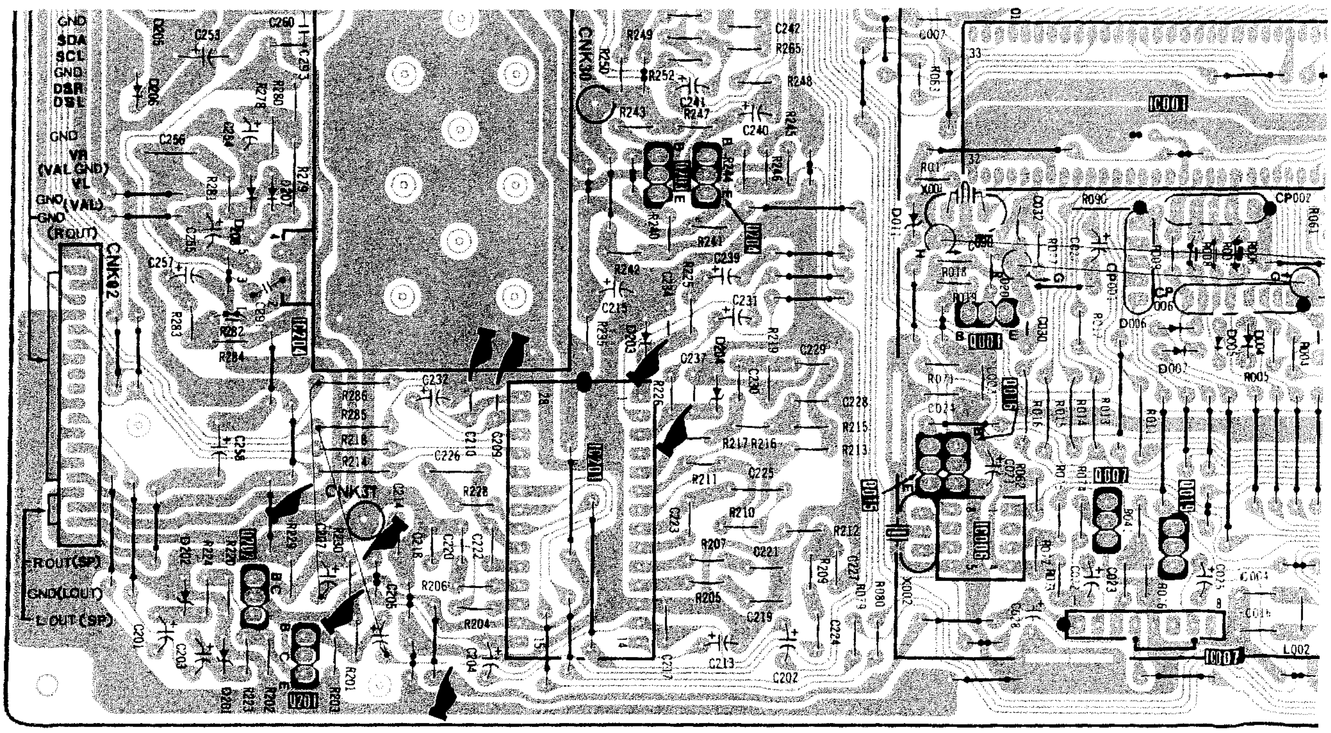
K Board : page 33


CNK06
GND
CSP2
50/60
PAL
SECAM
NT3.58
NT4.43
M/S
SYSTEM SW
HUE
SHARP
BRT
COL
PIC
GND
SUBVIDEO
CROMA
SWITCH
CNK05
VIDEO IN
GND
AV2
SCP
CNK04
M BLK
S BLK
S AV1
AUTO ST
TT LED
UK-ST0
UK-ST1
UK-ST2
GND
HUE
SHARP
SCL
SDA
GND
SUBTV OUT
PIC
COL
BRT
CNK03
GND
AGC
5V
AFT
33V
GND
VOIN
NC
SYNC
IC004
R031
R095
Q013
Q014
B
E
CNK22
CNK33
CNK32
CNK23
R028
R030
C206
R234
R233
R236
R232
C208
R270
R268
V TV IN
GND
VIDEO OUT
GND

K Board : page 32


K
SYSTEM CONTROL, MEMORY AUDIO CONTROL, SURROUND PROCESSER
IC201 TDA6200 AUDIO-CONTROL
Q203 2SC2785-F BUFFER-R
D204 RD7.5ES-B3 7.5V-REG
D203 RD7.5ES-B3 7.5V-REG
D209 1SS119 DRIVER
Q208 2SA1175-F MUTE-1
Q220 2SC2785-F MUTE-2
Q207 2SC2785-F MUTE-3
Q209 DTC144ES MUTE-4
CNK20 S9W-H
9 KI 3
8 KI 2
7 KO 3
6 KO 2
5 KO 1
4 KO 0
3 AUTO ST
2 GND
1 12V
CNK18 S4B-H
1 KI 1
2 KI 0
3 KO 0
4 NC
TO J1 BOARD CNJ07
TO H3 BOARD CNH03
CNK16 S7B-H
1 RES LED
2 ST LED
3 LED 1
4 LED 2
5 SIRCS
6 5V
7 GND
7 KI 2
6 KI 1
10V
GND
12V
5V
GND

K Board : page 33


GND
SDA
SCL
GND
DSR
DSL
GND
VR
(VAL GND)
VL
GND (VAL)
GND (ROUT)
CNK02
ROUT(SP)
GND(LOUT)
LOUT(SP)
CNK30
CNK31
IC201
IC001
IC002
IC007

A **J1**

SECTION 7 ELECTRICAL PARTS LIST

A Board : page 54, 55

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CNA01	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA02	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA03	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
CNA04	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
☛CNA038	*1-564-506-11	CONNECTOR, BOARD TO BOARD 3P	
		<CERAMIC TRAP>	
CT01	1-409-332-00	CERAMIC TRAP (4.5MHZ)	

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<DIODE>				
D02	8-719-000-06	DIODE MC921				
D05	8-719-100-35	DIODE RD5.6E-B2				
D06	8-719-911-19	DIODE 1SS119				
☛DR98	8-719-911-19	DIODE 1SS119				
		<RESISTOR>				
R92	1-249-421-11	CARBON	2.2K	5%	1/4W	
☛R93	1-249-433-11	CARBON	22K	5%	1/4W	
R94	1-249-425-11	CARBON	4.7K	5%	1/4W	
R96	1-249-433-11	CARBON	22K	5%	1/4W	
R98	1-249-441-11	CARBON	100K	5%	1/4W	

J1 Board : page 62, 63

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<CAPACITOR>				
C1421	1-124-963-11	ELECT	33MF	20%	16V	
☛C1425	1-124-902-00	ELECT	0.47MF	20%	50V	
☛C1426	1-124-902-00	ELECT	0.47MF	20%	50V	
C1427	1-101-003-00	CERAMIC	0.0047MF		50V	
C1428	1-101-003-00	CERAMIC	0.0047MF		50V	

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<RESISTOR>				
R1413	1-247-895-00	CARBON	470K	5%	1/4W	
R1414	1-249-437-11	CARBON	47K	5%	1/4W	
☛R1415	1-249-434-11	CARBON	27K	5%	1/4W	
☛R1416	1-249-434-11	CARBON	27K	5%	1/4W	
R1417	1-249-404-00	CARBON	82	5%	1/4W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1419	1-249-417-11	CARBON	1K	5%	1/4W	

K Board : page 66–68

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C215	1-124-119-00	ELECT	330MF	20%	16V	
C217	1-106-363-00	MYLAR	0.0068MF	10%	100V	
C218	1-106-375-12	MYLAR	0.022MF	10%	100V	
C219	1-106-375-12	MYLAR	0.022MF	10%	100V	
☛ C220	1-106-349-00	MYLAR	0.0018MF	10%	100V	
C221	1-106-349-00	MYLAR	0.0018MF	10%	100V	
C222	1-136-163-00	FILM	0.068MF	5%	50V	
C223	1-136-163-00	FILM	0.068MF	5%	50V	
☛ C224	1-106-367-00	MYLAR	0.01MF	10%	100V	
☛ C225	1-106-218-00	FILM	0.082MF	5%	100V	
☛ C226	1-106-218-00	FILM	0.082MF	5%	100V	
C227	1-106-375-12	MYLAR	0.022MF	10%	100V	
C228	1-106-379-12	MYLAR	0.033MF	10%	100V	
C229	1-106-371-00	MYLAR	0.015MF	10%	100V	
C230	1-106-371-00	MYLAR	0.015MF	10%	100V	
C231	1-124-902-00	ELECT	0.47MF	20%	50V	
C232	1-123-875-11	ELECT	10MF	20%	50V	
C239	1-124-902-00	ELECT	0.47MF	20%	50V	
C240	1-124-927-11	ELECT	4.7MF	20%	50V	
C241	1-124-927-11	ELECT	4.7MF	20%	50V	
C242	1-102-963-00	CERAMIC	33PF	5%	50V	
C243	1-106-359-00	MYLAR	0.0047MF	10%	100V	
C244	1-106-343-00	MYLAR	0.001MF	10%	100V	
C245	1-124-119-00	ELECT	330MF	20%	16V	
C246	1-124-477-11	ELECT	47MF	20%	16V	
C247	1-102-963-00	CERAMIC	33PF	5%	50V	
C248	1-102-963-00	CERAMIC	33PF	5%	50V	
☛ C249	1-124-910-11	ELECT	47MF	20%	50V	
C250	1-124-463-00	ELECT	0.1MF	20%	50V	
C251	1-136-169-00	FILM	0.22MF	5%	50V	
☛ C252	1-124-927-11	ELECT	4.7MF	20%	50V	
C253	1-124-607-11	ELECT	2200MF	20%	50V	
☛ C254	1-124-910-11	ELECT	47MF	20%	50V	
C255	1-124-463-00	ELECT	0.1MF	20%	50V	
C256	1-136-169-00	FILM	0.22MF	5%	50V	
☛ C257	1-124-927-11	ELECT	4.7MF	20%	50V	
C258	1-124-607-11	ELECT	2200MF	20%	50V	
☛ C259	1-136-163-00	FILM	0.068MF	5%	50V	
☛ C260	1-136-163-00	FILM	0.068MF	5%	50V	
C290	1-101-112-00	CERAMIC	330PF	10%	50V	
C291	1-101-112-00	CERAMIC	330PF	10%	50V	
☛ C292	1-130-476-00	MYLAR	0.0027MF	10%	50V	
☛ C293	1-130-476-00	MYLAR	0.0027MF	10%	50V	
☛ C3208	1-123-875-11	ELECT	10MF	20%	50V	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R224	1-249-413-11	CARBON	470	5%	1/4W	
R225	1-249-437-11	CARBON	47K	5%	1/4W	
R226	1-249-437-11	CARBON	47K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-431-11	CARBON	15K	5%	1/4W	
R229	1-249-441-11	CARBON	100K	5%	1/4W	
R269	1-249-433-11	CARBON	22K	5%	1/4W	
R270	1-249-437-11	CARBON	47K	5%	1/4W	
☛ R271	1-249-429-11	CARBON	10K	5%	1/4W	
R272	1-249-433-11	CARBON	22K	5%	1/4W	
☛ R273	1-247-725-11	CARBON	10K	5%	1/4W	
R274	1-249-381-11	CARBON	1	5%	1/4W	F
☛ R276	1-249-428-11	CARBON	8.2K	5%	1/4W	
☛ R277	1-247-895-00	CARBON	470K	5%	1/4W	
☛ R278	1-249-429-11	CARBON	10K	5%	1/4W	
☛ R279	1-247-725-11	CARBON	10K	5%	1/4W	
R280	1-249-433-11	CARBON	22K	5%	1/4W	
R281	1-249-381-11	CARBON	1	5%	1/4W	
☛ R283	1-249-428-11	CARBON	8.2K	5%	1/4W	
☛ R284	1-247-895-00	CARBON	470K	5%	1/4W	
☛ R285	1-249-465-11	CARBON	47K	5%	1/4W	
☛ R286	1-249-465-11	CARBON	47K	5%	1/4W	
R288	1-249-423-11	CARBON	3.3K	5%	1/4W	
R290	1-249-433-11	CARBON	22K	5%	1/4W	
R291	1-249-423-11	CARBON	3.3K	5%	1/4W	
R292	1-215-899-11	METAL OXIDE	15K	5%	2W	F

SONY

TRINITRON® COLOR TV BASIC SCHEMATIC DIAGRAM

KV-3400D/RM-679MTP

Chassis No. SCC-C29B

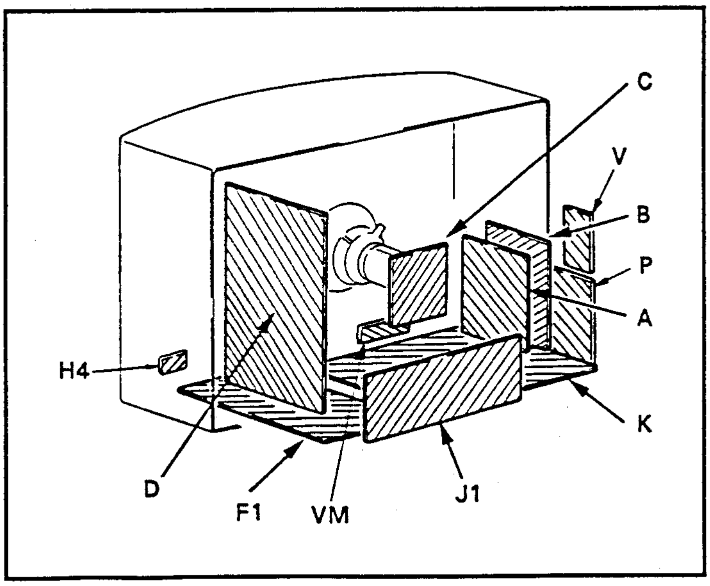
NOTE

THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE TECHNICIAN.
KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND ⚠ MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

CIRCUIT BOARDS LOCATION



Sony Corporation

©1989

3-750-048-01

Printed in Japan

Note :

- All capacitors are in μ F unless otherwise noted. pF : μ μ F 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch : 5mm
  Rating electrical power : 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M Ω digital multimeter.
- Readings are taken with a PAL color−bar signal input.

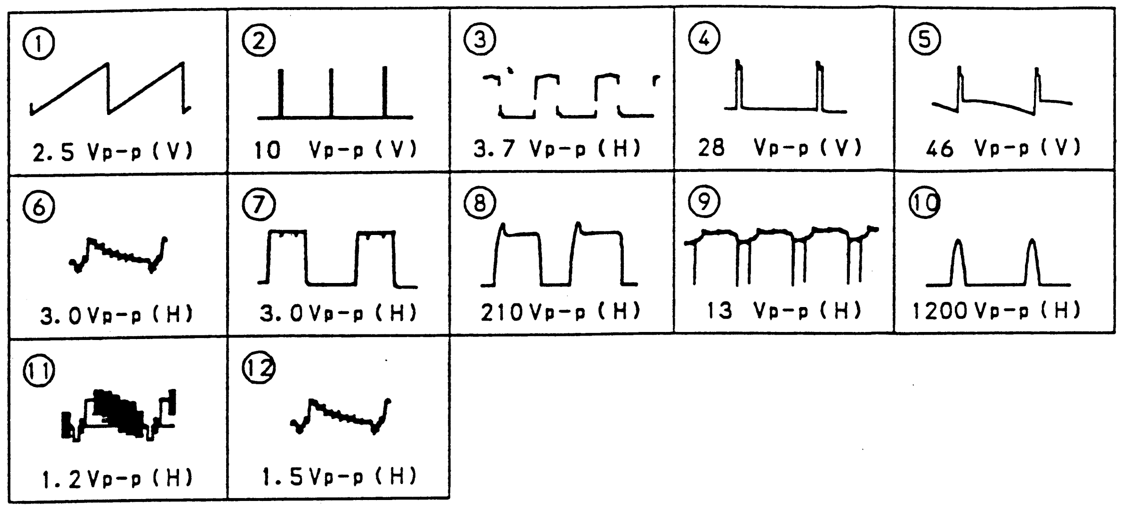
  no mark : PAL
  < > : SECAM
  ( ) : NTSC 3.58MHz
  [ ] : NTSC 4.43MHz
- ▭ : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- ━━ : B+line
- ➡ : signal path.

Reference information

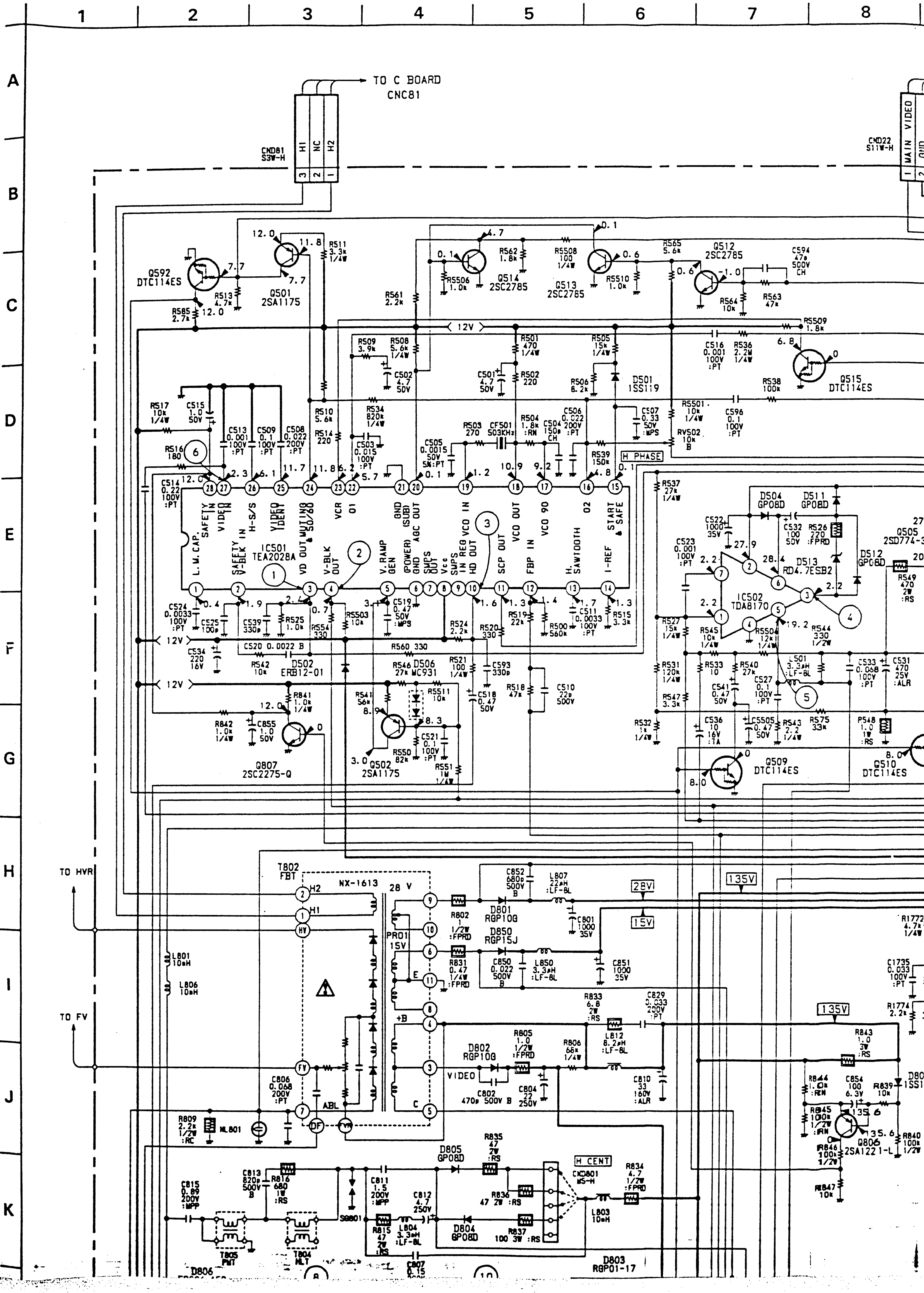
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF−8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

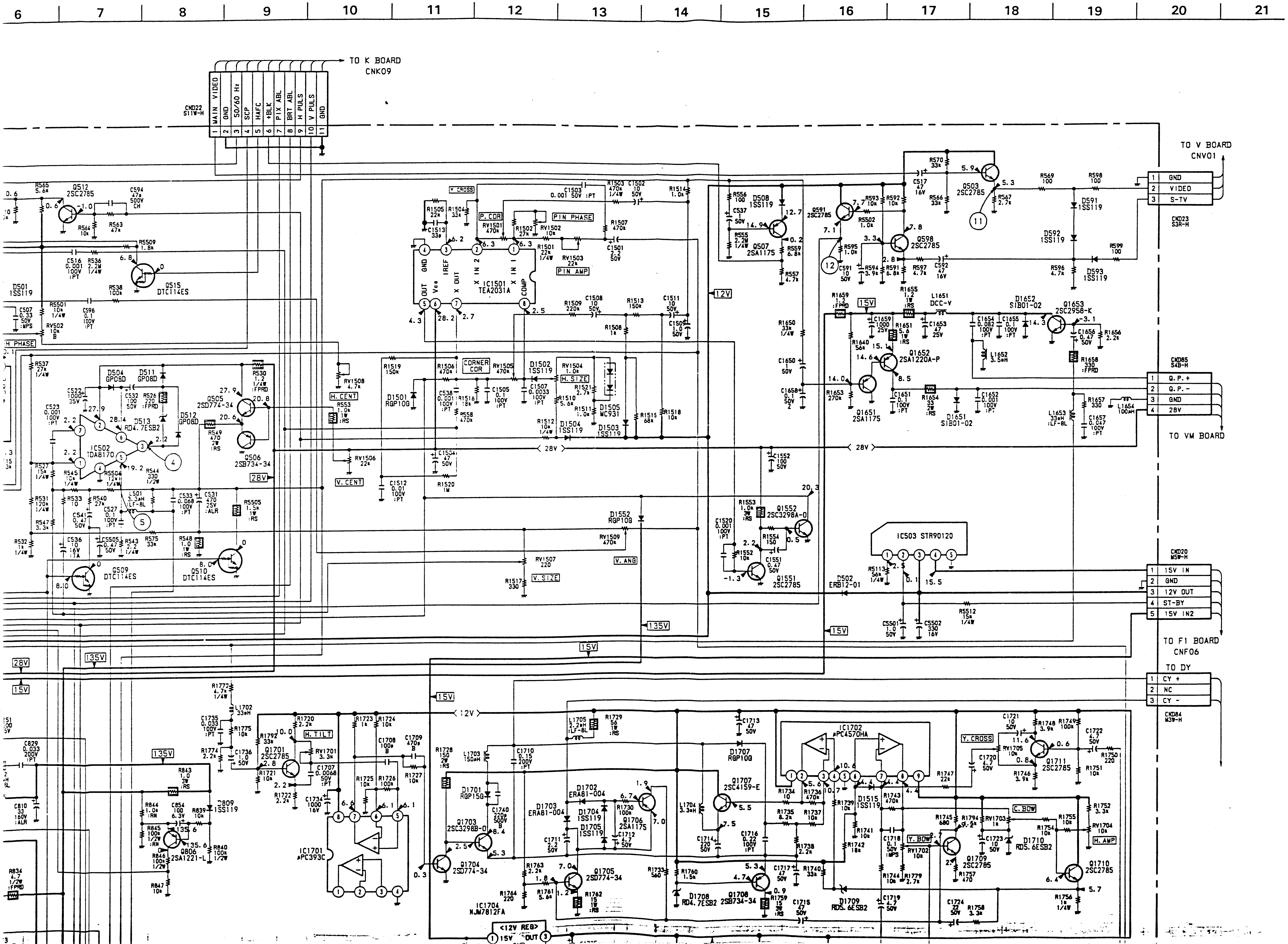
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

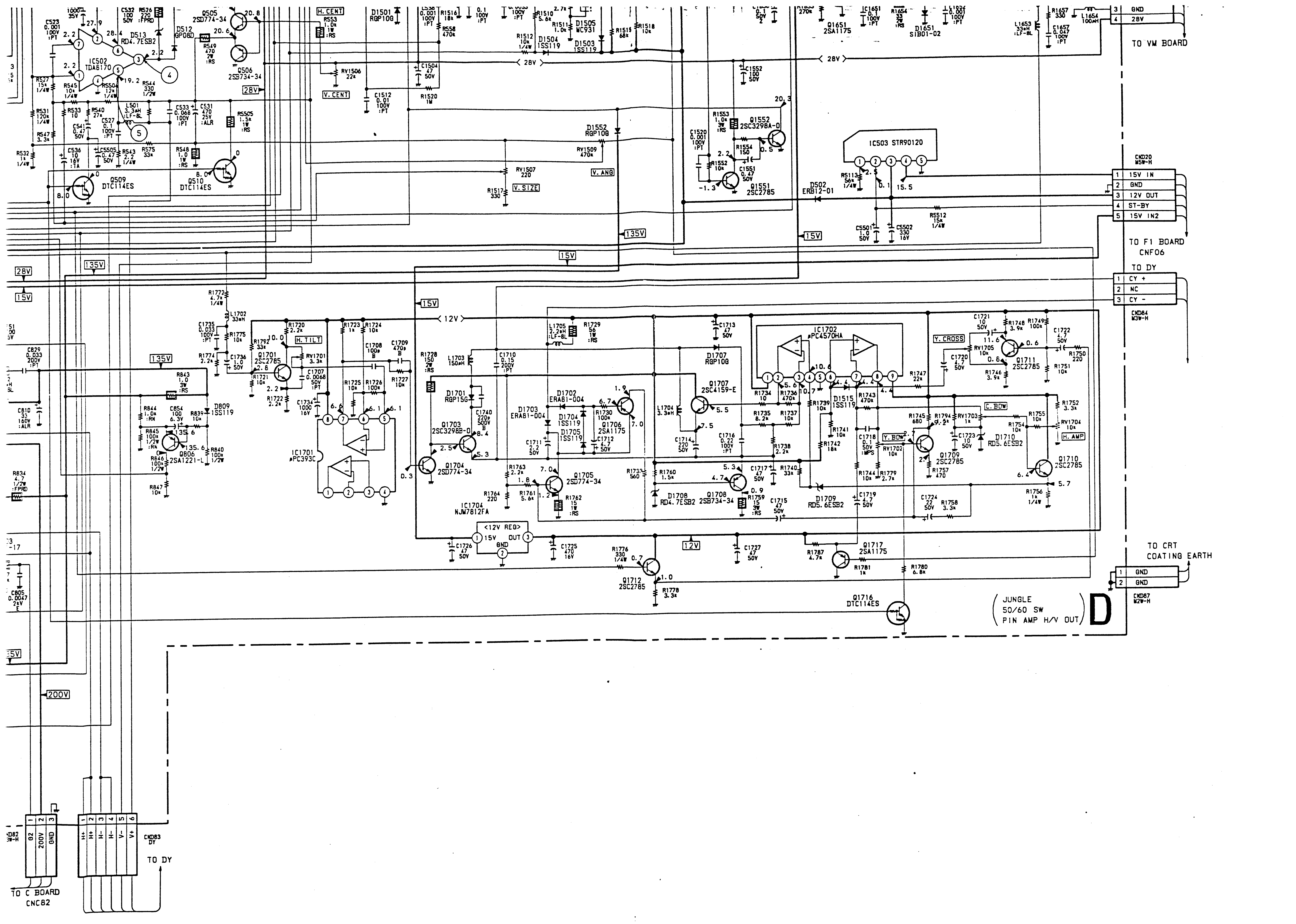
●D BOARD WAVEFORM



SCHEATIC DIAGRAM

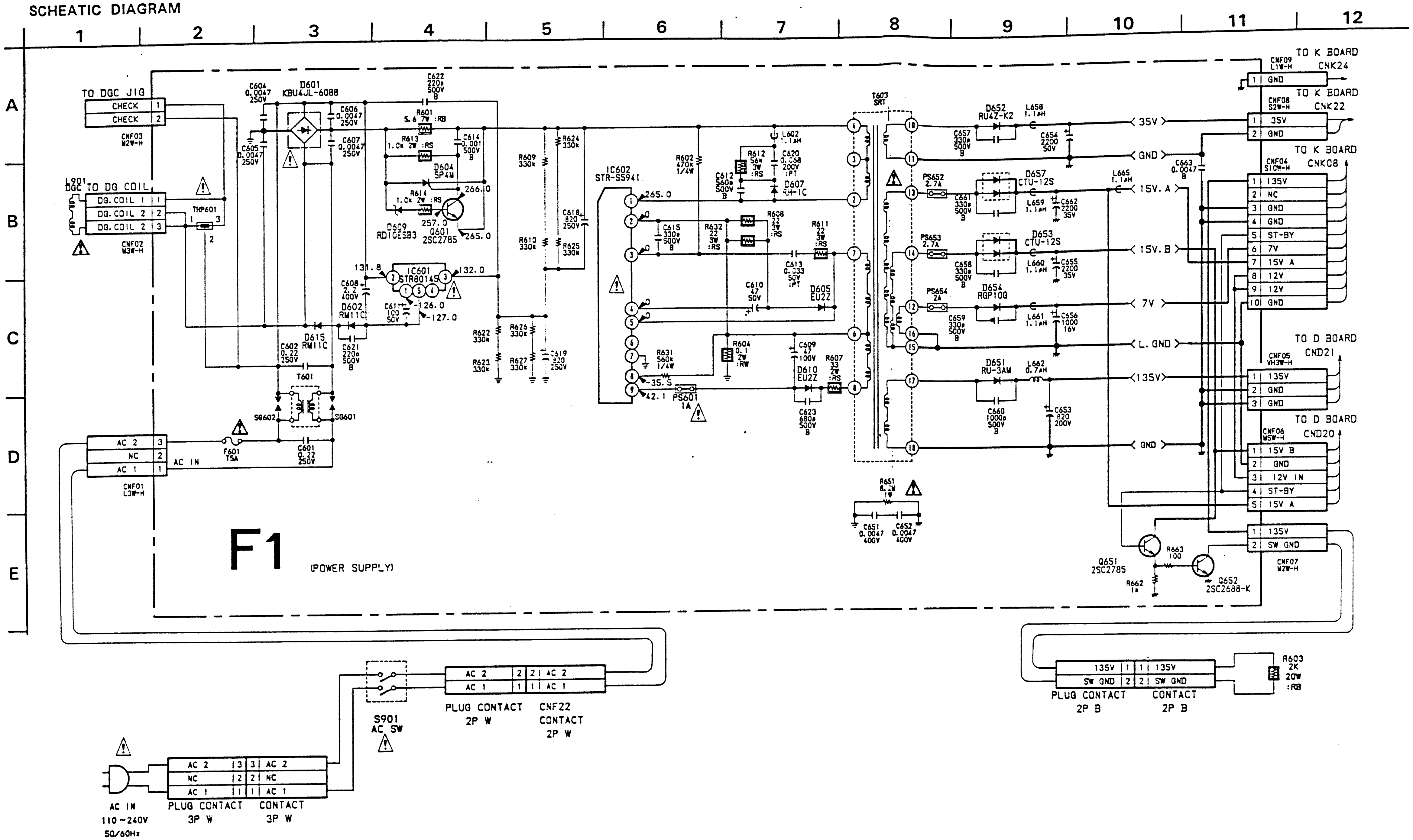

1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
K
TO C BOARD
CNC81
CND81
S3W-H
H1
NC
H2
CND22
S11W-H
MAIN VIDEO
Q592
DTC114ES
Q501
2SA1175
Q514
2SC2785
Q513
2SC2785
Q512
2SC2785
Q515
DTC114ES
D501
1SS119
12V
H PHASE
IC501
TEA2028A
L.M.CAP.
SAFETY IN
VIDEO IN
H-S/S
VIDEO IDENT
VD OUT MUTING SD/60
VCR
01
GND (SUB)
AGC OUT
VCO IN
SCP OUT
VCO OUT
VCO 90
02
START & SAFE
SAFETY BLK IN
V-BLK OUT
V.RAMP GEN
(POWER) GND
GND
SUPS OUT
Vcc
SUPS IN REG
HD OUT
FBP IN
H. SAWTOOTH
I-REF
IC502
TDA8170
D504
GP08D
D511
GP08D
D512
GP08D
D513
RD4.7ESB2
Q505
2SD774
D502
ERB12-01
D506
MC931
Q807
2SC2275-Q
Q502
2SA1175
Q509
DTC114ES
Q510
DTC114ES
L501
3.3μH
:LF-8L
TO HVR
TO FV
T802
FBT
NX-1613
28 V
HV
PRO1
15V
+B
VIDEO
ABL
DF
FV
L801
10μH
L806
10μH
D801
RGP10G
D850
RGP15J
28V
15V
135V
L807
22μH
:LF-8L
L850
3.3μH
:LF-8L
L812
8.2μH
:LF-8L
D802
RGP10G
R809
NL801
D805
GP08D
D804
GP08D
H CENT
CND801
MS-H
L803
10μH
L804
3.3μH
:LF-8L
T805
PMT
T804
HLT
S801
D806
D803
RGP01-17
Q806
2SA1221-L
R843
1.0
3W
:RS

6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
TO K BOARD CNK09
CN022 S11W-H
MAIN VIDEO
GND
50/60 Hz
SCP
HAFC
+BLK
PIX ABL
BRT ABL
H PULS
V PULS
GND
TO V BOARD CNV01
GND
VIDEO
S-TV
CN023 S3R-H
Q512 2SC2785
Q515 DTC114ES
D501 1SS119
H PHASE
IC502 TDA8170
Q505 2SD774-34
Q506 2SB734-34
D504 GP08D
D511 GP08D
D512 GP08D
D513 RD4.7ESB2
Q509 DTC114ES
Q510 DTC114ES
28V
135V
15V
12V
Y CROSS
P. COR
PIN PHASE
PIN AMP
IC1501 TEA2031A
H. CENT
V. CENT
CORNER COR
H. SIZE
V. ANG
V. SIZE
D1501 RGP10G
D1502 1SS119
D1503 1SS119
D1504 1SS119
D1505 MC931
D1552 RGP10G
Q1552 2SC3298A-O
Q1551 2SC2785
Q503 2SC2785
Q591 2SC2785
Q598 2SC2785
Q507 2SA1175
D508 1SS119
D591 1SS119
D592 1SS119
D593 1SS119
L1651 DCC-Y
D1652 S1B01-02
Q1653 2SC2958-K
Q1652 2SA1220A-P
Q1651 2SA1175
D1651 S1B01-02
CN085 S4B-H
Q.P.+
Q.P.-
GND
28V
TO VM BOARD
IC503 STR90120
D502 ERB12-01
CN020 M5W-H
15V IN
GND
12V OUT
ST-BY
15V IN2
TO F1 BOARD CNF06
TO DY
CY +
NC
CY -
CN084 M3W-H
H. TILT
Q1701 2SC2785
IC1701 μPC393C
Q806 2SA1221-L
D809 1SS119
L1702 33mH
L1703 150mH
L1705 2.2mH
D1701 RGP15G
Q1703 2SC3298B-O
Q1704 2SD774-34
D1702 ERA81-004
D1703 ERA81-004
D1704 1SS119
D1705 1SS119
Q1706 2SA1175
Q1705 2SD774-34
IC1704 NJM7812FA
<12V REG>
15V
OUT
D1707 RGP10G
Q1707 2SC4159-E
L1704 3.3mH
D1708 RD4.7ESB2
Q1708 2SB734-34
IC1702 μPC4570HA
D1515 1SS119
D1709 RD5.6ESB2
Y. BOW
Y. CROSS
Q1711 2SC2785
C. BOW
Q1709 2SC2785
D1710 RD5.6ESB2
H. AMP
Q1710 2SC2785


IC502 TDA8170
Q505 2SD774-34
Q506 2SB734-34
D513 RD4.7ESB2
D512 GP08D
Q509 DTC114ES
Q510 DTC114ES
H. CENT
V. CENT
RV1506 22k
V. SIZE
RV1507 220
V. ANG
RV1509 470k
D1501 RGP10G
D1552 RGP10B
D1504 1SS119
D1503 1SS119
D1505 MC931
Q1651 2SA1175
D1651 S1B01-02
Q1552 2SC3298A-O
Q1551 2SC2785
IC503 STR90120
D502 ERB12-01
TO VM BOARD
GND
28V
CKD20 M5W-H
15V IN
GND
12V OUT
ST-BY
15V IN2
TO F1 BOARD CNF06
TO DY
CY +
NC
CY -
CKD84 M3W-H
28V
15V
135V
12V
200V
Q1701 2SC2785
H. TILT
RV1701 3.3k
IC1701 μPC393C
Q1703 2SC3298B-O
Q1704 2SD774-34
D1701 RGP15G
D1702 ERA81-004
D1703 ERA81-004
D1704 1SS119
D1705 1SS119
Q1705 2SD774-34
Q1706 2SA1175
Q1707 2SC4159-E
D1707 RGP10G
IC1702 μPC4570HA
D1515 1SS119
Y. CROSS
RV1705 10k
Q1711 2SC2785
C. BOW
RV1703 1k
Y. BOW
RV1702 10k
Q1709 2SC2785
D1710 RD5.6ESB2
RV1704 10k
H. AMP
Q1710 2SC2785
D1708 RD4.7ESB2
Q1708 2SB734-34
D1709 RD5.6ESB2
IC1704 NJM7812FA
<12V REG>
15V
OUT
GND
Q1712 2SC2785
Q1717 2SA1175
Q1716 DTC114ES
Q806 2SA1221-L
D809 1SS119
TO CRT COATING EARTH
GND
GND
CKD87 M2W-H
JUNGLE
50/60 SW
PIN AMP H/V OUT
D
O2
200V
GND
CKD82 3W-H
TO C BOARD CNC82
H+
H+
H-
H-
V-
V+
CKD83 DY
TO DY

F1 [POWER SUPPLY]

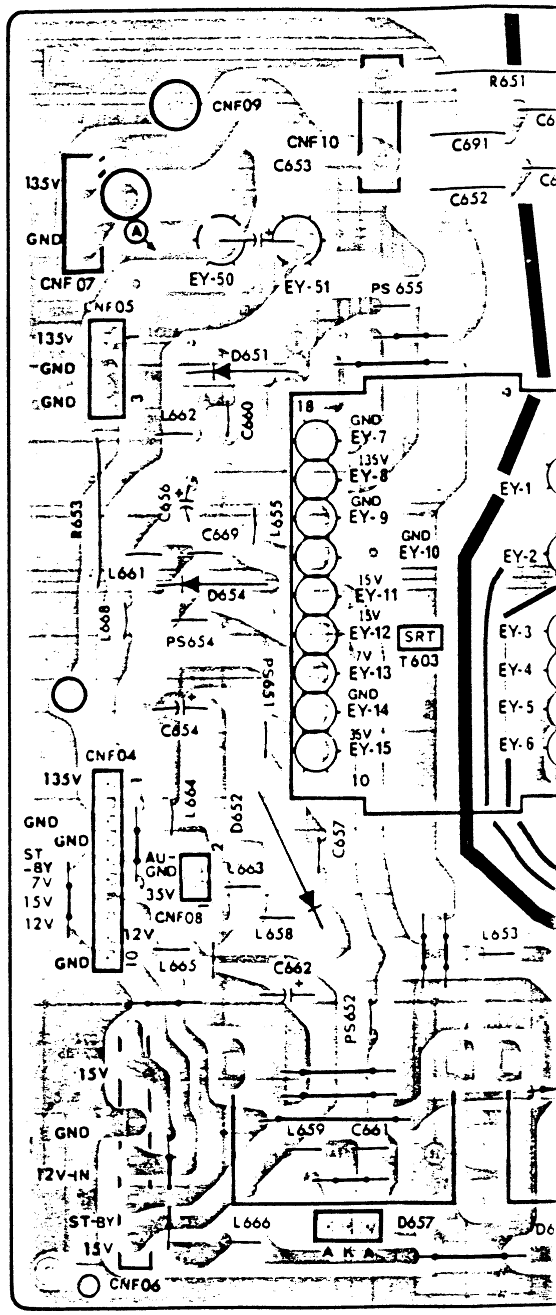
SCHEATIC DIAGRAM

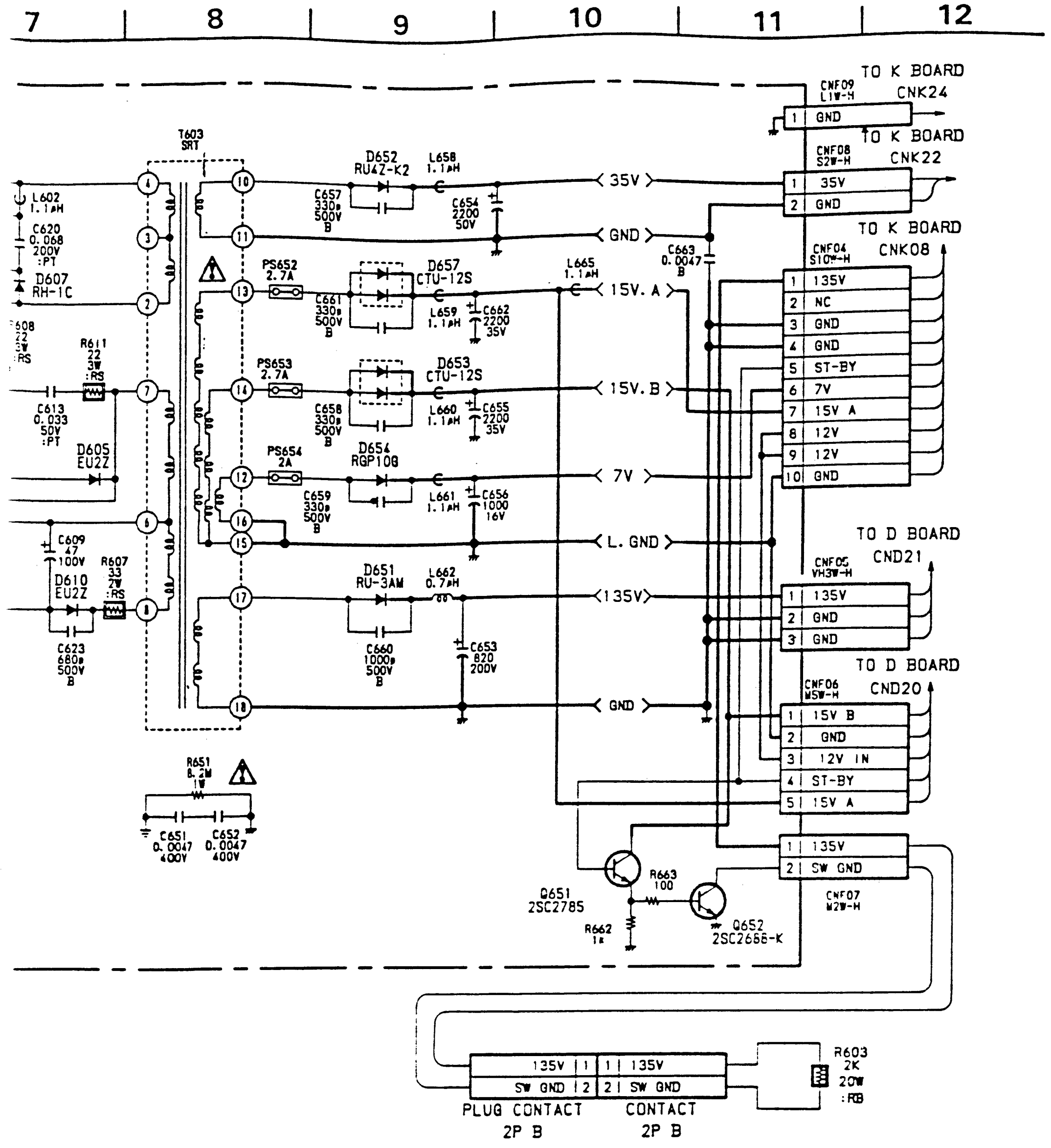

1 2 3 4 5 6 7 8 9 10 11 12
A B C D E
TO DGC JIG
CHECK 1
CHECK 2
CNF03 M2W-H
L901 DGC TO DG COIL
DG. COIL 1 1
DG. COIL 2 2
DG. COIL 2 3
CNF02 M3W-H
THP601
C604 0.0047 250V
D601 KBU4JL-6088
C605 0.0047 250V
C606 0.0047 250V
C607 0.0047 250V
C622 220p 500V B
R601 5.6 7W :RB
R613 1.0k 2W :RS
C614 0.001 500V B
D604 SP4M
R614 1.0k 2W :RS
266.0
257.0
265.0
D609 RD10ESB3
Q601 2SC2785
R609 330k
R624 330k
R610 330k
R625 330k
C618 820 250V
IC601 STR80145
131.8
132.0
126.0
127.0
C608 2.2 400V
D602 RM11C
C611 100 50V
D615 RM11C
C602 0.22 250V
C621 220p 500V B
T601
SG602
SG601
R622 330k
R623 330k
R626 330k
R627 330k
C619 820 250V
IC602 STR-S5941
265.0
-35.5
42.1
C615 330p 500V B
R632 22 3W :RS
R608 22 3W :RS
R602 470k 1/4W
R612 56k 3W :RS
C612 560p 500V B
L602 1.1μH
C620 0.068 200V :PT
D607 EH1C
R611 22 3W :RS
C613 0.033 50V :PT
C610 47 50V
D605 EU2Z
R604 0.1 2W :RW
R631 560k 1/4W
PS601 1A
C609 47 100V
D610 EU2Z
R607 33 2W :RS
C623 680p 500V B
T603 SRT
D652 RU4Z-K2
L658 1.1μH
C657 330p 500V B
C654 2200 50V
35V
GND
C663 0.0047 B
PS652 2.7A
C661 330p 500V B
D657 CTU-12S
L659 1.1μH
C662 2200 35V
L665 1.1μH
15V. A
PS653 2.7A
C658 330p 500V B
D653 CTU-12S
L660 1.1μH
C655 2200 35V
15V. B
PS654 2A
D654 RGP10G
C659 330p 500V B
L661 1.1μH
C656 1000 16V
7V
L. GND
D651 RU-3AM
L662 0.7μH
135V
C660 1000p 500V B
C653 820 200V
GND
R651 8.2M 1W
C651 0.0047 400V
C652 0.0047 400V
TO K BOARD CNK24
CNF09 L1W-H
1 GND
TO K BOARD CNK22
CNF08 S2W-H
1 35V
2 GND
TO K BOARD CNK08
CNF04 S10W-H
1 135V
2 NC
3 GND
4 GND
5 ST-BY
6 7V
7 15V A
8 12V
9 12V
10 GND
TO D BOARD CND21
CNF05 VH3W-H
1 135V
2 GND
3 GND
TO D BOARD CND20
CNF06 M5W-H
1 15V B
2 GND
3 12V IN
4 ST-BY
5 15V A
1 135V
2 SW GND
CNF07 M2W-H
Q651 2SC2785
R663 100
R662 1k
Q652 2SC2688-K
F1 (POWER SUPPLY)
AC 2 3
NC 2
AC 1 1
CNF01 L3W-H
AC IN
F601 T5A
C601 0.22 250V
AC 2 2 2 AC 2
AC 1 1 1 AC 1
PLUG CONTACT 2P W
CNF22 CONTACT 2P W
S901 AC SW
AC 2 3 3 AC 2
NC 2 2 NC
AC 1 1 1 AC 1
PLUG CONTACT 3P W
CONTACT 3P W
AC IN 110-240V 50/60Hz
135V 1 1 135V
SW GND 2 2 SW GND
PLUG CONTACT 2P B
CONTACT 2P B
R603 2K 20W :RB

PRINTED WIRING BOARD

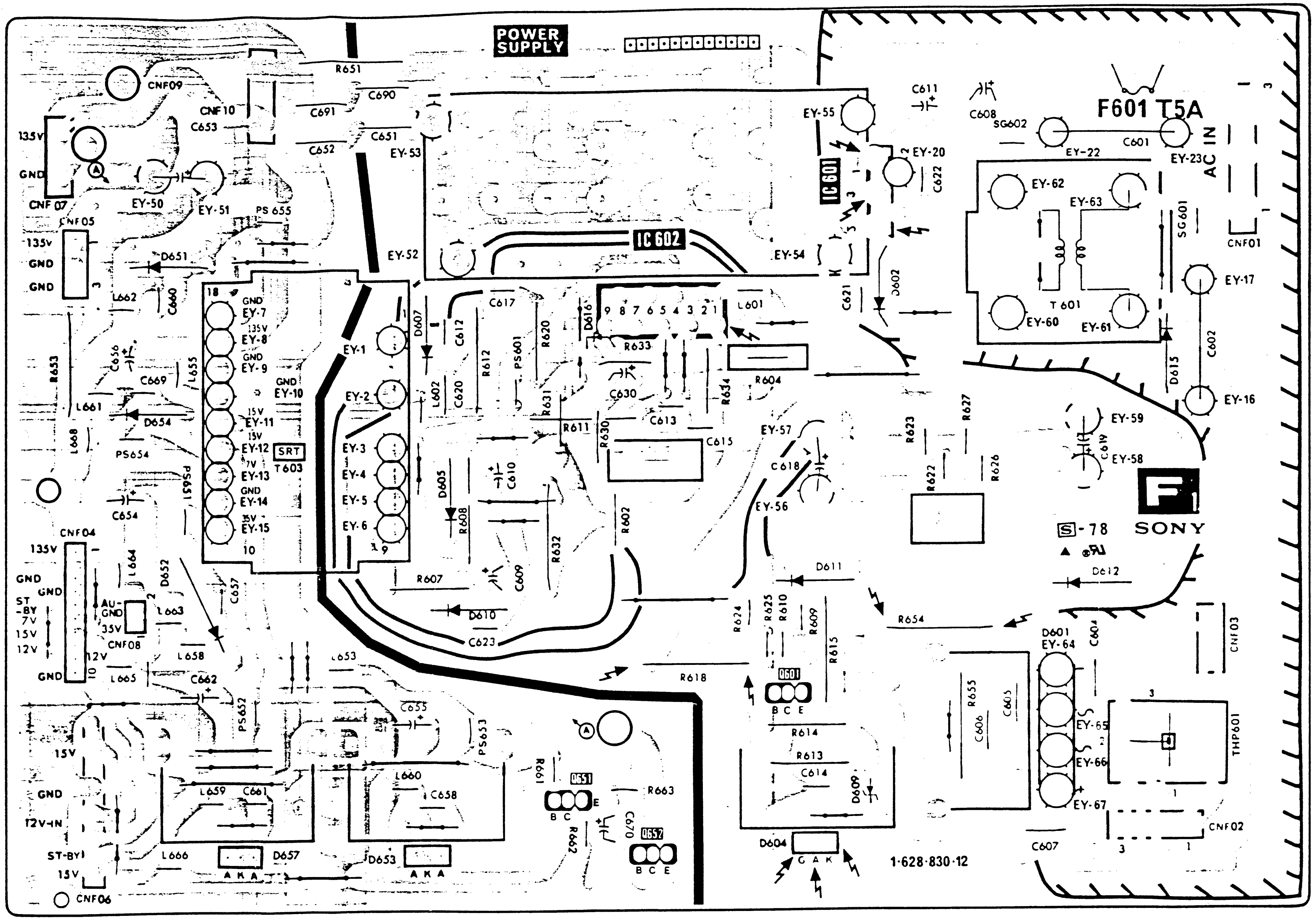
—Conductor Side—

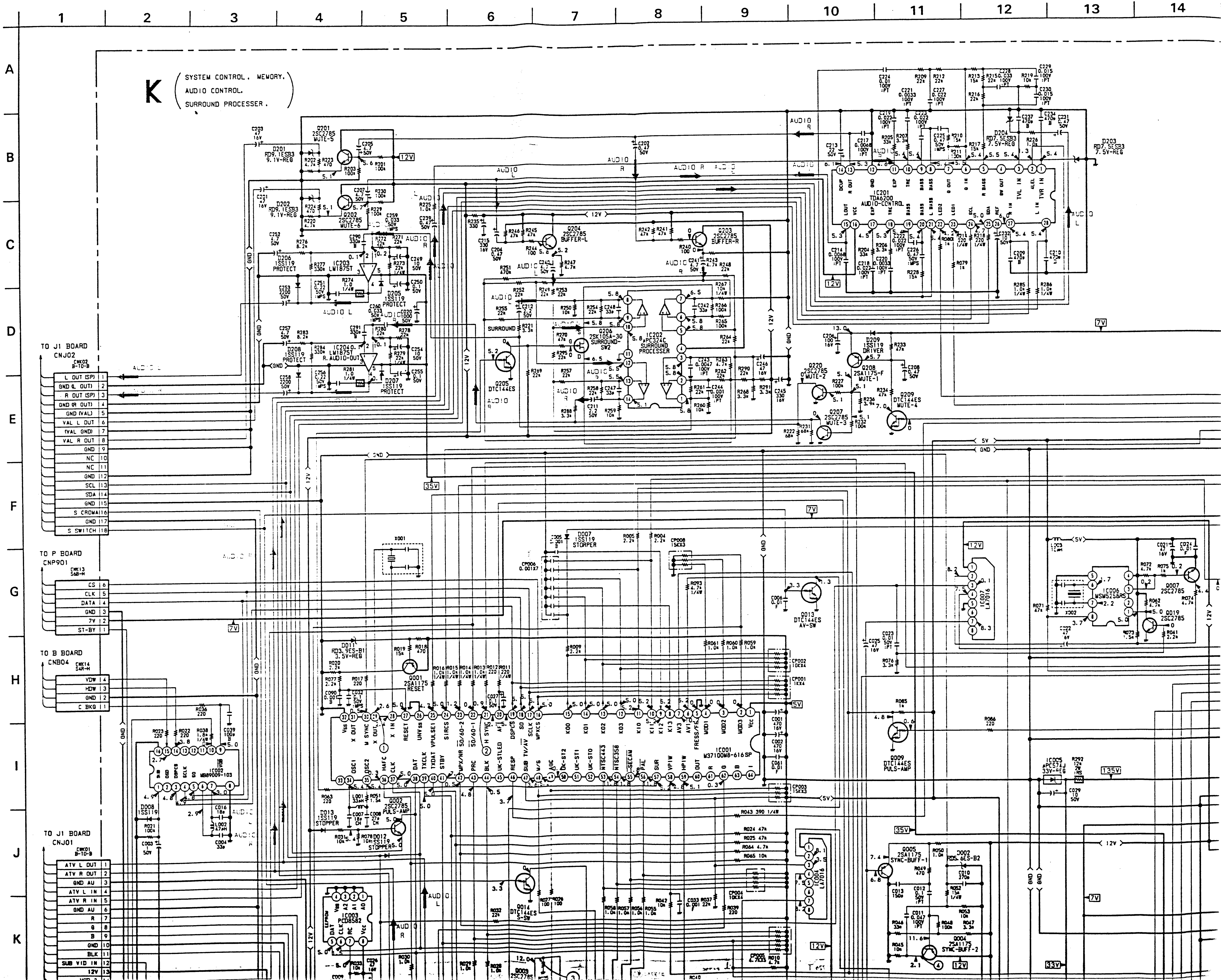
— F1 Board —

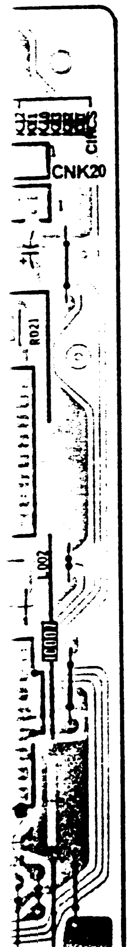

CNF09
CNF10
C653
R651
C691
C652
135V
GND
CNF 07
EY-50
EY-51
PS 655
CNF05
135V
GND
GND
D651
L662
C660
GND EY-7
135V EY-8
GND EY-9
GND EY-10
15V EY-11
15V EY-12
SRT T603
7V EY-13
GND EY-14
35V EY-15
EY-1
EY-2
EY-3
EY-4
EY-5
EY-6
R653
C656
C669
L655
L661
D654
L668
PS654
PS651
C654
CNF04
135V
GND
ST-BY
7V
15V
12V
GND
L664
D652
AU-GND
35V
CNF08
12V
L663
C657
L658
L653
L665
C662
PS652
15V
GND
12V-IN
ST-BY
15V
L659
C661
L666
D657
CNF06

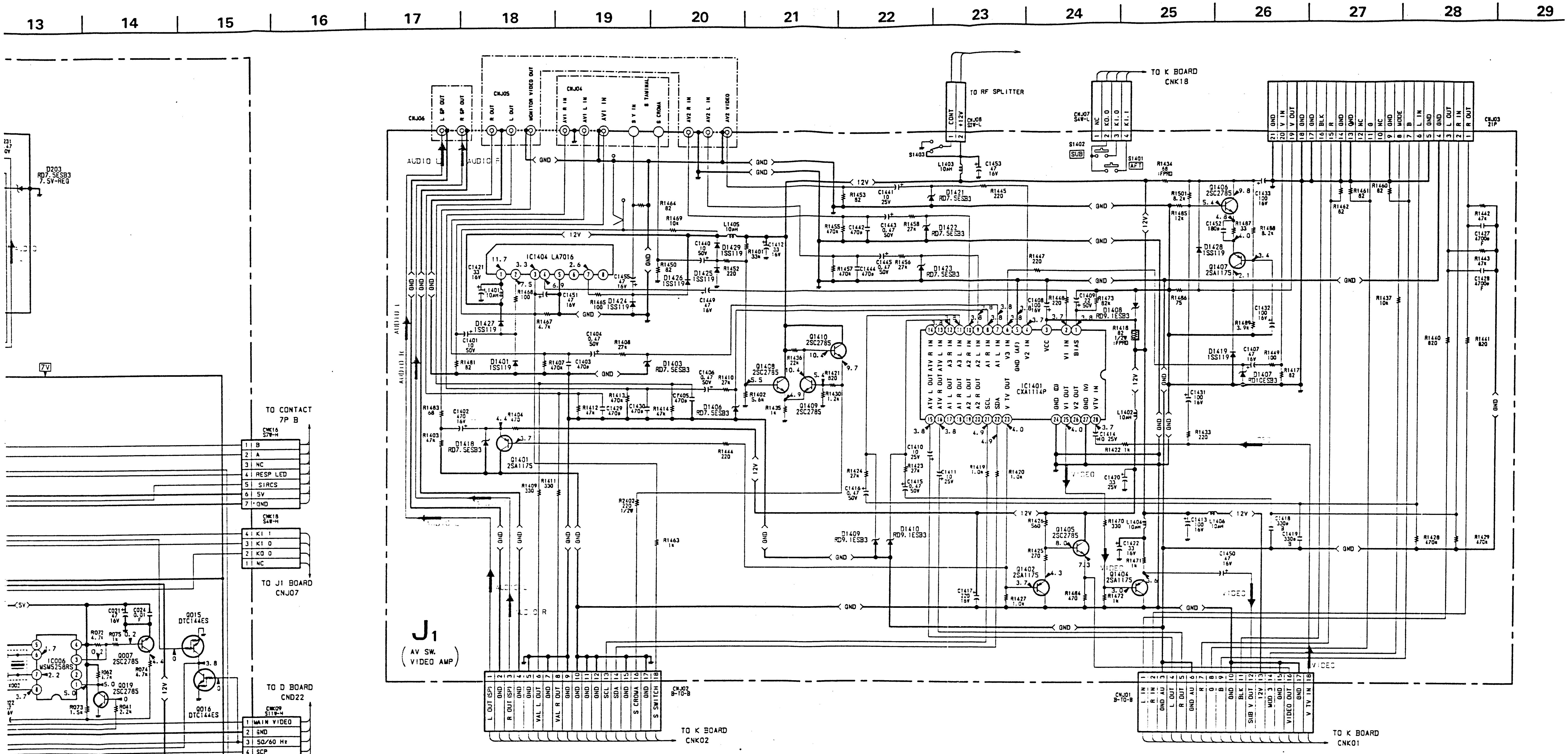

7
8
9
10
11
12
TO K BOARD
CNF09 L1W-H
CNK24
1 GND
TO K BOARD
CNF08 S2W-H
CNK22
1 35V
2 GND
TO K BOARD
CNF04 S10W-H
CNK08
1 135V
2 NC
3 GND
4 GND
5 ST-BY
6 7V
7 15V A
8 12V
9 12V
10 GND
TO D BOARD
CNF05 VH3W-H
CND21
1 135V
2 GND
3 GND
TO D BOARD
CNF06 M5W-H
CND20
1 15V B
2 GND
3 12V IN
4 ST-BY
5 15V A
1 135V
2 SW GND
CNF07 M2W-H
35V
GND
15V. A
15V. B
7V
L. GND
135V
GND
T603 SRT
D652 RU4Z-K2
L658 1.1μH
C657 330p 500V B
C654 2200 50V
C663 0.0047 B
PS652 2.7A
D657 CTU-12S
L665 1.1μH
C661 330p 500V B
L659 1.1μH
C662 2200 35V
PS653 2.7A
D653 CTU-12S
C658 330p 500V B
L660 1.1μH
C655 2200 35V
PS654 2A
D654 RGP10B
C659 330p 500V B
L661 1.1μH
C656 1000 16V
D651 RU-3AM
L662 0.7μH
C660 1000p 500V B
C653 820 200V
L602 1.1μH
C620 0.068 200V :PT
D607 RH-1C
R611 22 3W :RS
C613 0.033 50V :PT
D605 EU2Z
C609 47 100V
D610 EU2Z
R607 33 7W :RS
C623 680p 500V B
R651 8.2M 1W
C651 0.0047 400V
C652 0.0047 400V
Q651 2SC2785
R663 100
R662 1k
Q652 2SC2666-K
135V 1
SW GND 2
1 135V
2 SW GND
PLUG CONTACT 2P B
CONTACT 2P B
R603 2K 20W :RB

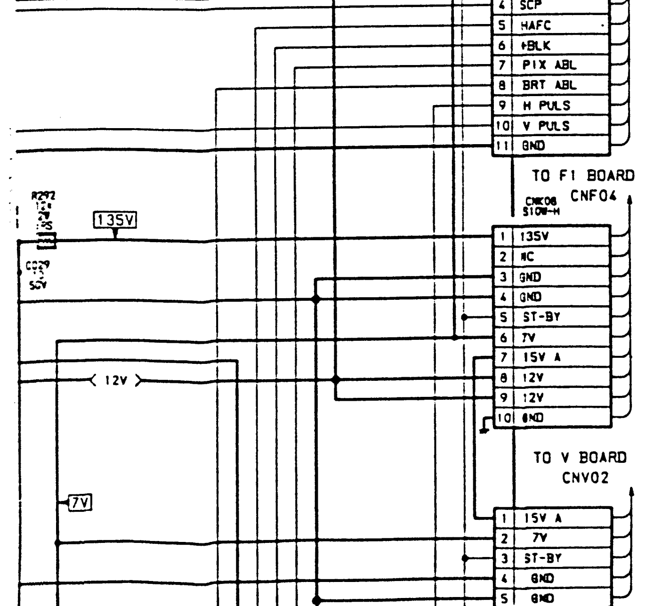
PRINTED WIRING BOARD
—Conductor Side—
— F1 Board —


POWER SUPPLY
F601 T5A
AC IN
CNF09
CNF10
C653
135V
GND
CNF07
EY-50
EY-51
CNF05
135V
GND
GND
D651
L662
C660
C656
C669
L655
L661
D654
PS654
L668
R653
PS655
C691
C690
R651
C652
C651
EY-53
EY-52
EY-55
EY-20
EY-54
IC601
IC602
C611
C608
SG602
C601
EY-22
EY-23
EY-62
EY-63
EY-60
EY-61
T601
SG601
CNF01
EY-17
EY-16
C602
D615
C622
C621
D602
L601
R604
R634
R633
C630
C613
D616
C617
R620
PS601
R612
C612
D607
C620
L602
R631
R611
R630
C615
C610
D605
R608
C609
R632
R602
R607
D610
C623
SRT
T603
EY-1
EY-2
EY-3
EY-4
EY-5
EY-6
EY-7
EY-8
EY-9
EY-10
EY-11
EY-12
EY-13
EY-14
EY-15
EY-56
EY-57
EY-58
EY-59
C618
C619
R623
R627
R622
R626
SONY
S-78
D611
D612
R654
D601
EY-64
C604
CNF03
R624
R625
R610
R609
R615
R618
Q601
B C E
R614
R613
C614
D609
D604
G A K
1-628-830-12
R655
C605
C606
EY-65
EY-66
EY-67
THP601
CNF02
C607
CNF04
135V
GND
GND
ST-BY
7V
15V
12V
GND
AU-GND
35V
CNF08
L664
D652
L663
C657
C654
PS651
12V
L658
L665
C662
PS652
L653
C655
PS653
R661
Q651
B C E
R663
C670
R662
Q652
B C E
15V
GND
12V-IN
ST-BY
15V
CNF06
L659
C661
L660
C658
L666
D657
D653
A K A
A K A


1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J K
K
SYSTEM CONTROL, MEMORY,
AUDIO CONTROL,
SURROUND PROCESSER.
IC201 TDA6200 AUDIO-CONTROL
IC202 μPC324C SURROUND PROCESSER
IC203 LM1875T
IC204 LM1875T R. AUDIO-OUT
IC001 M37100M8-616SP
IC002 MB89009-103
IC003 PCD8582
IC004 LA7016
IC005 μPC574J 33V-REG
IC006 MSM5256RS
IC007 LA7016
Q201 2SC2785 MUTE-5
Q202 2SC2785 MUTE-6
Q203 2SC2785 BUFFER-R
Q204 2SC2785 BUFFER-L
Q205 DTC144ES
Q206 2SK105A-30 SURROUND-SW2
Q207 2SC2785 MUTE-3
Q208 2SA1175-F MUTE-1
Q209 DTC144ES MUTE-4
Q220 2SC2785 MUTE-2
Q001 2SA1175 RESET
Q002 2SC2785 PULS-AMP
Q004 2SA1175 SYNC-BUFF-2
Q005 2SA1175 SYNC-BUFF-1
Q007 2SC2785
Q009 DTC144ES PULS-AMP
Q013 DTC144ES AV-SW
Q014 DTC144ES S-SW
Q019 2SC2785
D201 RD9.1ESB3 9.1V-REG
D202 RD9.1ESB3 9.1V-REG
D203 RD7.5ESB3 7.5V-REG
D204 RD7.5ESB3 7.5V-REG
D205 1SS119 PROTECT
D206 1SS119 PROTECT
D207 1SS119 PROTECT
D208 1SS119 PROTECT
D209 1SS119 DRIVER
D002 RD5.6ES-B2
D007 1SS119 STOPPER
D008 1SS119
D011 RD3.9ES-B1 3.9V-REG
D012 1SS119 STOPPER
D013 1SS119 STOPPER
X001
X002
TO J1 BOARD CNJ02
L OUT (SP) 1
GND (L OUT) 2
R OUT (SP) 3
GND (R OUT) 4
GND (VAL) 5
VAL L OUT 6
(VAL GND) 7
VAL R OUT 8
GND 9
NC 10
NC 11
GND 12
SCL 13
SDA 14
GND 15
S CROMA 16
GND 17
S SWITCH 18
TO P BOARD CNP901
CS 6
CLK 5
DATA 4
GND 3
7V 2
ST-BY 1
TO B BOARD CNB04
VDW 4
HDW 3
GND 2
C BKG 1
TO J1 BOARD CNJ01
ATV L OUT 1
ATV R OUT 2
GND AU 3
ATV L IN 4
ATV R IN 5
GND AU 6
R 7
G 8
B 9
GND 10
BLK 11
SUB VID IN 12
12V 13
AUDIO L
AUDIO R
SURROUND
12V
7V
5V
35V
33V
135V
GND




13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
J1
(AV SW, VIDEO AMP)
IC1404 LA7016
IC1401 CXA1114P
TO RF SPLITTER
TO K BOARD CNK18
TO CONTACT 7P B
TO J1 BOARD CNJ07
TO D BOARD CND22
TO K BOARD CNK02
TO K BOARD CNK01
CNJ06
CNJ05
CNJ04
CNJ08
CNJ07
CNJ03 21P
CNJ02 B-TO-B
CNJ01 B-TO-B
IC006 MSM5258RS
Q015 DTC144ES
Q016 DTC144ES
Q007 2SC2785
Q019 2SC2785
D203 RD7.5ESB3 7.5V-REG
Q1406 2SC2785
Q1407 2SA1175
Q1410 2SC2785
Q1408 2SC2785
Q1409 2SC2785
Q1401 2SA1175
Q1405 2SC2785
Q1402 2SA1175
Q1404 2SA1175

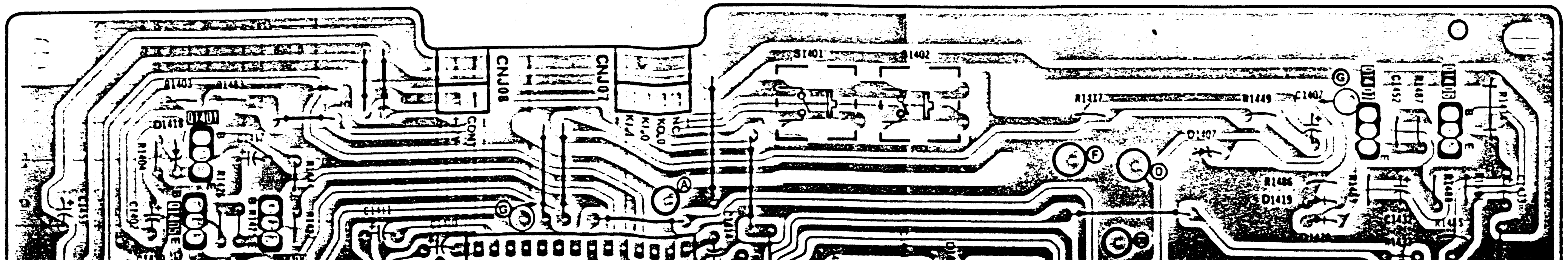

TO F1 BOARD CNF04
TO V BOARD CNV02
135V
12V
7V

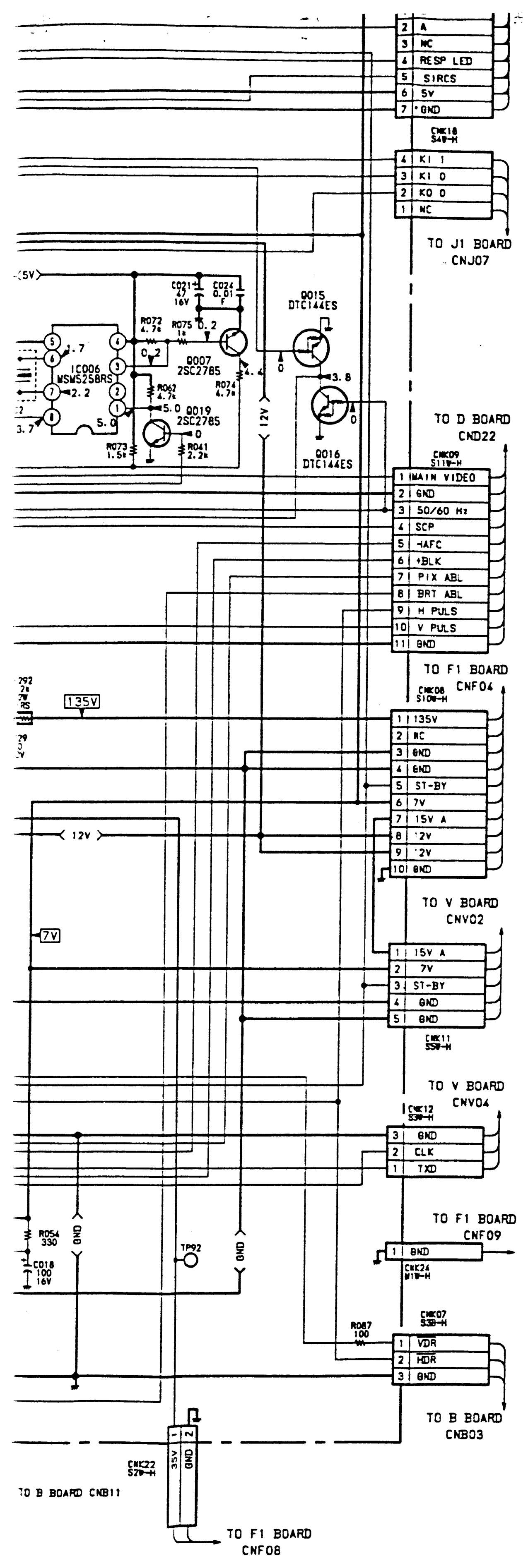
J1 [AV SW, VIDEO AMP]

PRINTED WIRING BOARD

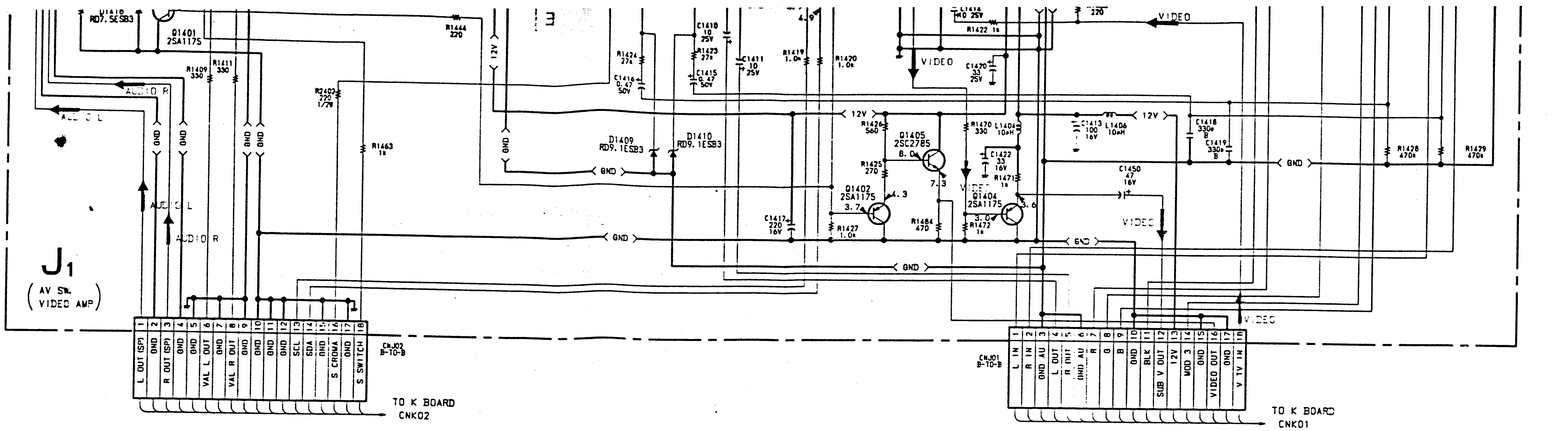
—Conductor Side—

— J1 Board —


CNJ08
CNJ07
S1401
S1402
D1418
D1407
D1419
R1449
R1486
C1407



2 A
3 NC
4 RESP LED
5 SIRCS
6 5V
7 GND
CNK18
4 KI 1
3 KI 0
2 KO 0
1 NC
TO J1 BOARD
CNJ07
IC006
MSM52S8RS
Q007
2SC2785
Q015
DTC144ES
Q019
2SC2785
Q016
DTC144ES
12V
TO D BOARD
CND22
CNK09
1 MAIN VIDEO
2 GND
3 50/60 Hz
4 SCP
5 HAFC
6 +BLK
7 PIX ABL
8 BRT ABL
9 H PULS
10 V PULS
11 GND
TO F1 BOARD
CNF04
CNK08
135V
1 135V
2 NC
3 GND
4 GND
5 ST-BY
6 7V
7 15V A
8 12V
9 12V
10 GND
12V
TO V BOARD
CNV02
7V
1 15V A
2 7V
3 ST-BY
4 GND
5 GND
CNK11
TO V BOARD
CNV04
CNK12
3 GND
2 CLK
1 TXD
TO F1 BOARD
CNF09
1 GND
CNK24
R054
330
C018
100
16V
TP92
GND
GND
R087
100
CNK07
1 VDR
2 HDR
3 GND
TO B BOARD
CNB03
CNK22
TO B BOARD CKB11
TO F1 BOARD
CNF08



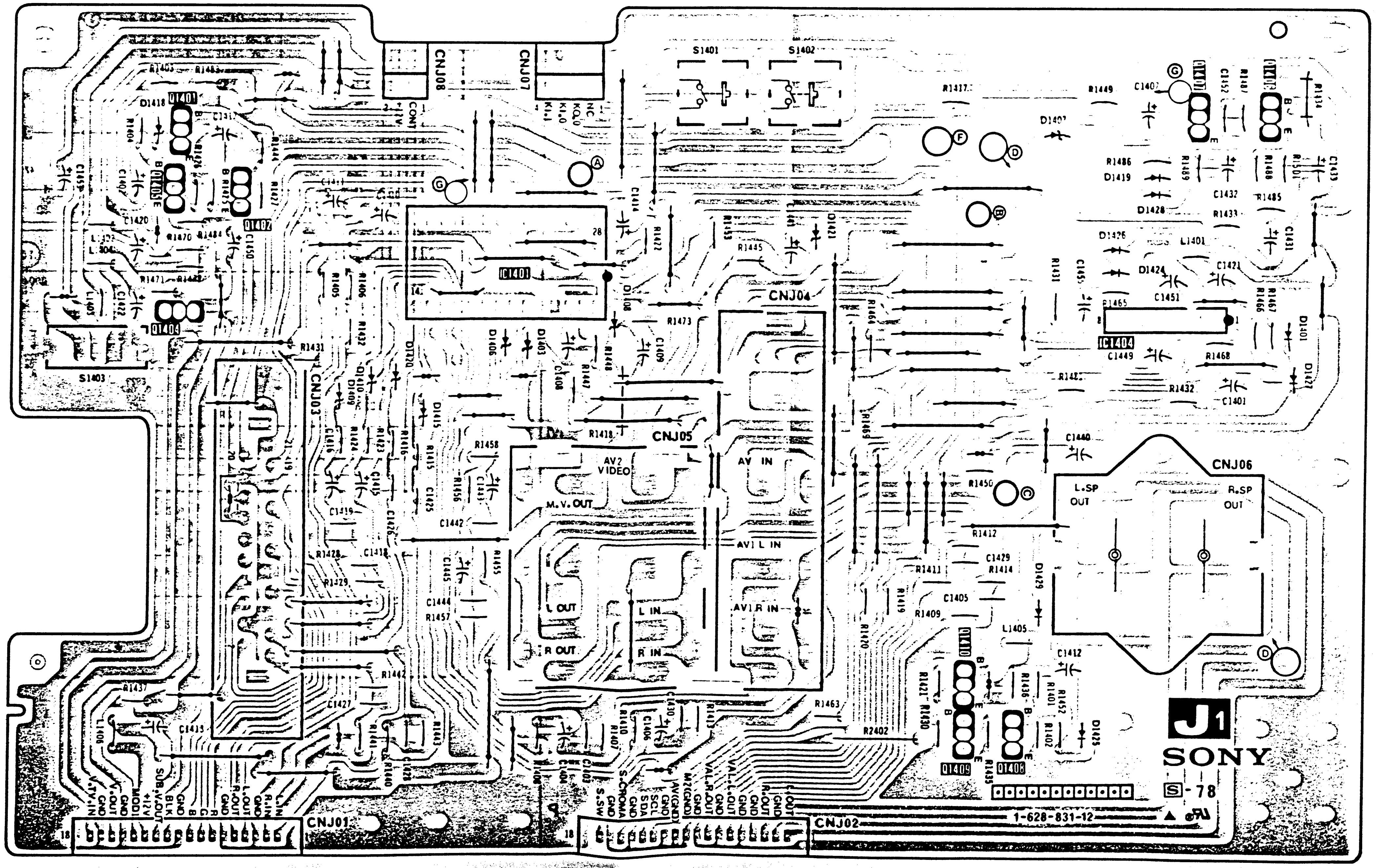
Q1401
2SA1175
R1444
220
12V
R1409
330
R1411
330
AUDIO R
AUDIO L
AUDIO L
AUDIO R
R2402
220
1/2W
R1463
1k
GND
J1
(AV SW, VIDEO AMP)
D1409
RD9.1ESB3
D1410
RD9.1ESB3
C1410
10
25V
C1411
10
25V
R1419
1.0k
R1420
1.0k
VIDEO
C1470
33
25V
Q1405
2SC2785
Q1402
2SA1175
Q1404
2SA1175
R1426
560
R1425
270
R1427
1.0k
R1484
470
R1470
330
L1404
10uH
R1471
1k
R1472
1k
C1413
100
16V
L1406
10uH
C1418
330p
C1419
330p
C1450
47
16V
C1417
220
16V
C1422
33
16V
R1428
470k
R1429
470k
12V
GND
GND
GND
GND
GND
VIDEO
VIDEO
VIDEO
1 L OUT (SP)
2 GND
3 R OUT (SP)
4 GND
5 VAL L OUT
6 GND
7 VAL R OUT
8 GND
9 GND
10 GND
11 GND
12 SCL
13 SDA
14 GND
15 S CROMA
16 GND
17 S SWITCH
18
CNJ02
B-10-B
TO K BOARD
CNK02
CNJ01
B-10-B
1 L IN
2 R IN
3 GND AU
4 L OUT
5 R OUT
6 (MD) AU
7 R
8 G
9 B
10 GND
11 BLK
12 SUB V OUT
13 12V
14 MOD 3
15 GND
16 VIDEO OUT
17 GND
18 V 1V IN
TO K BOARD
CNK01

J1 [AV SW, VIDEO AMP]

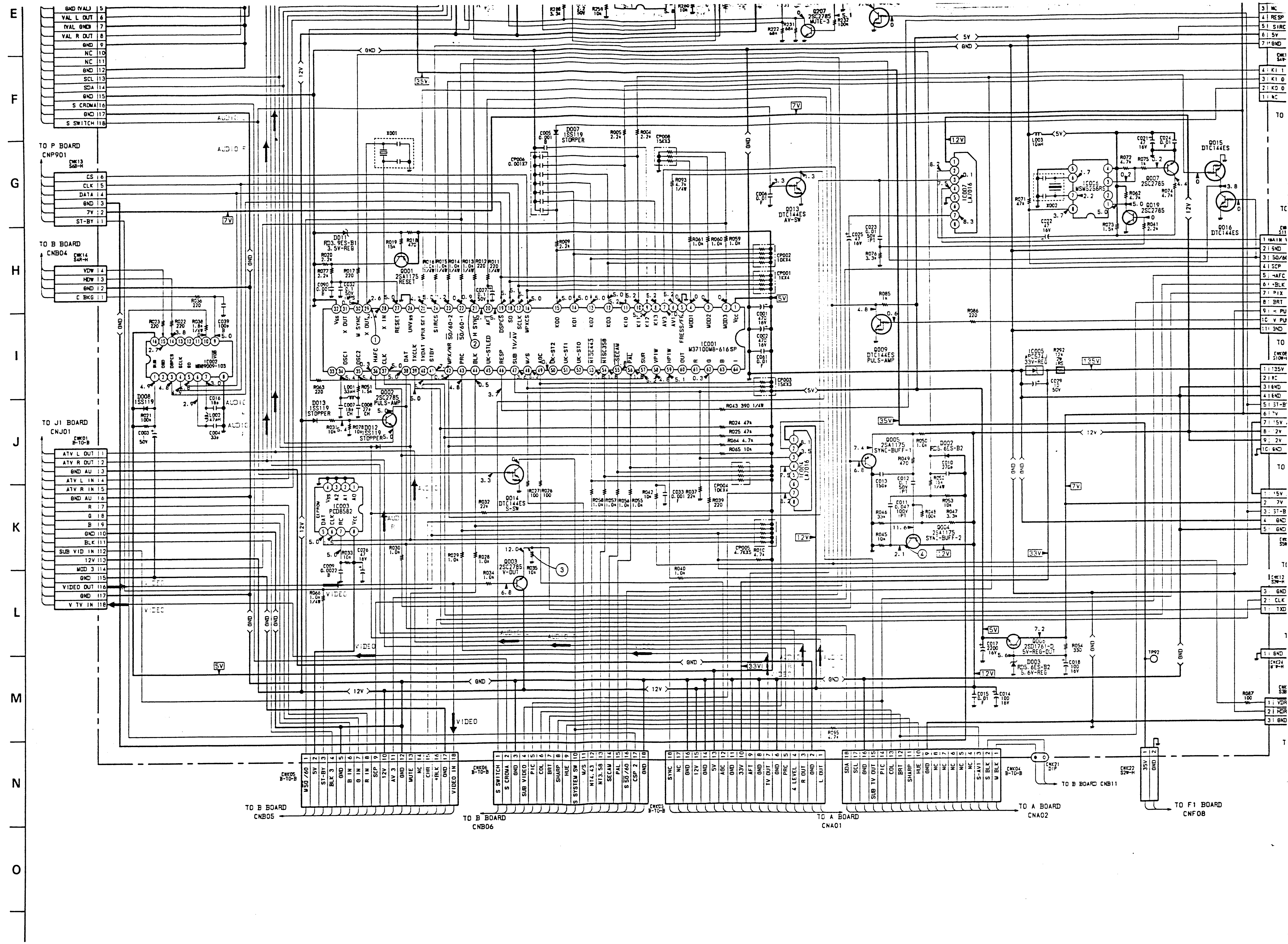
PRINTED WIRING BOARD

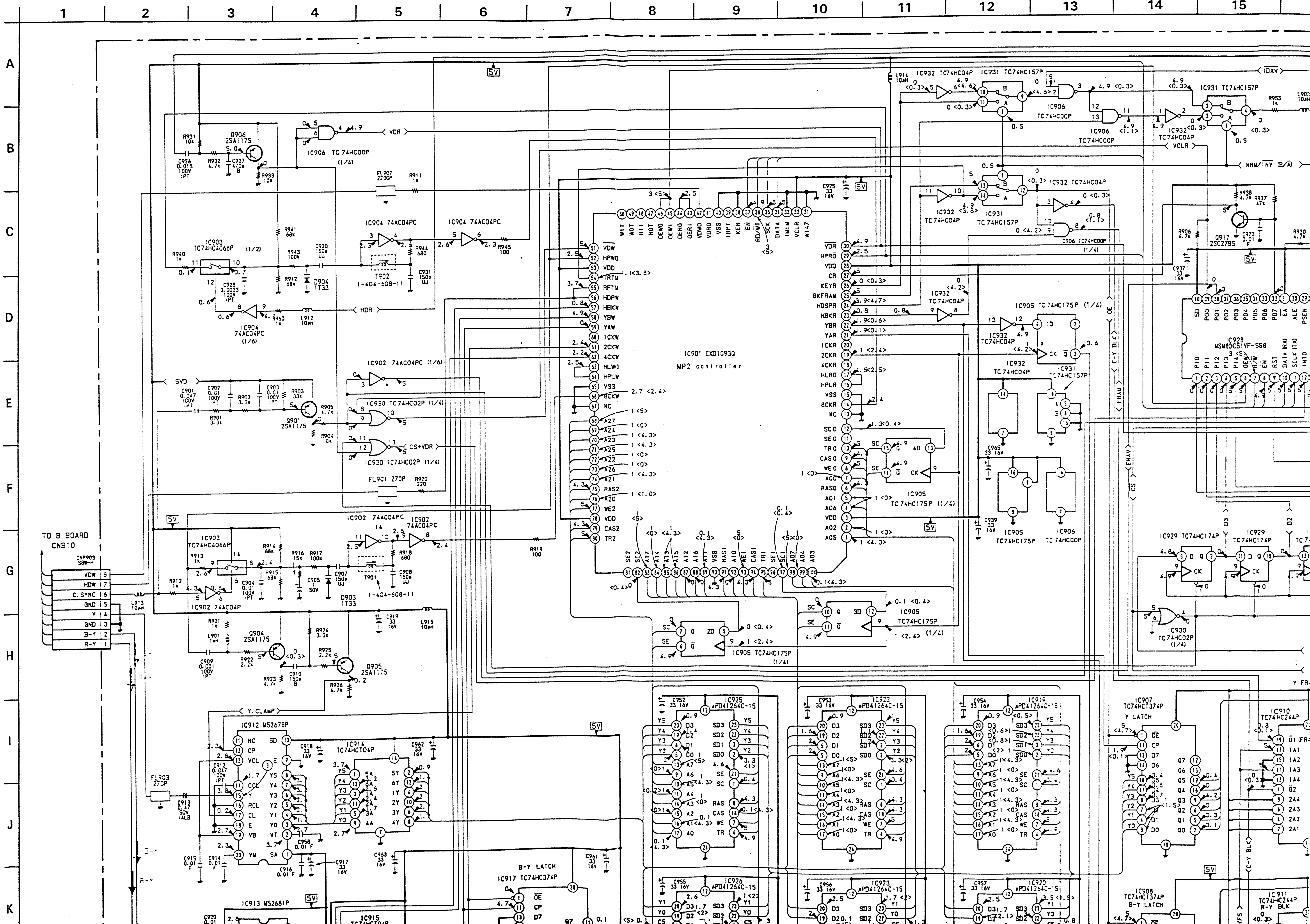
-Conductor Side-

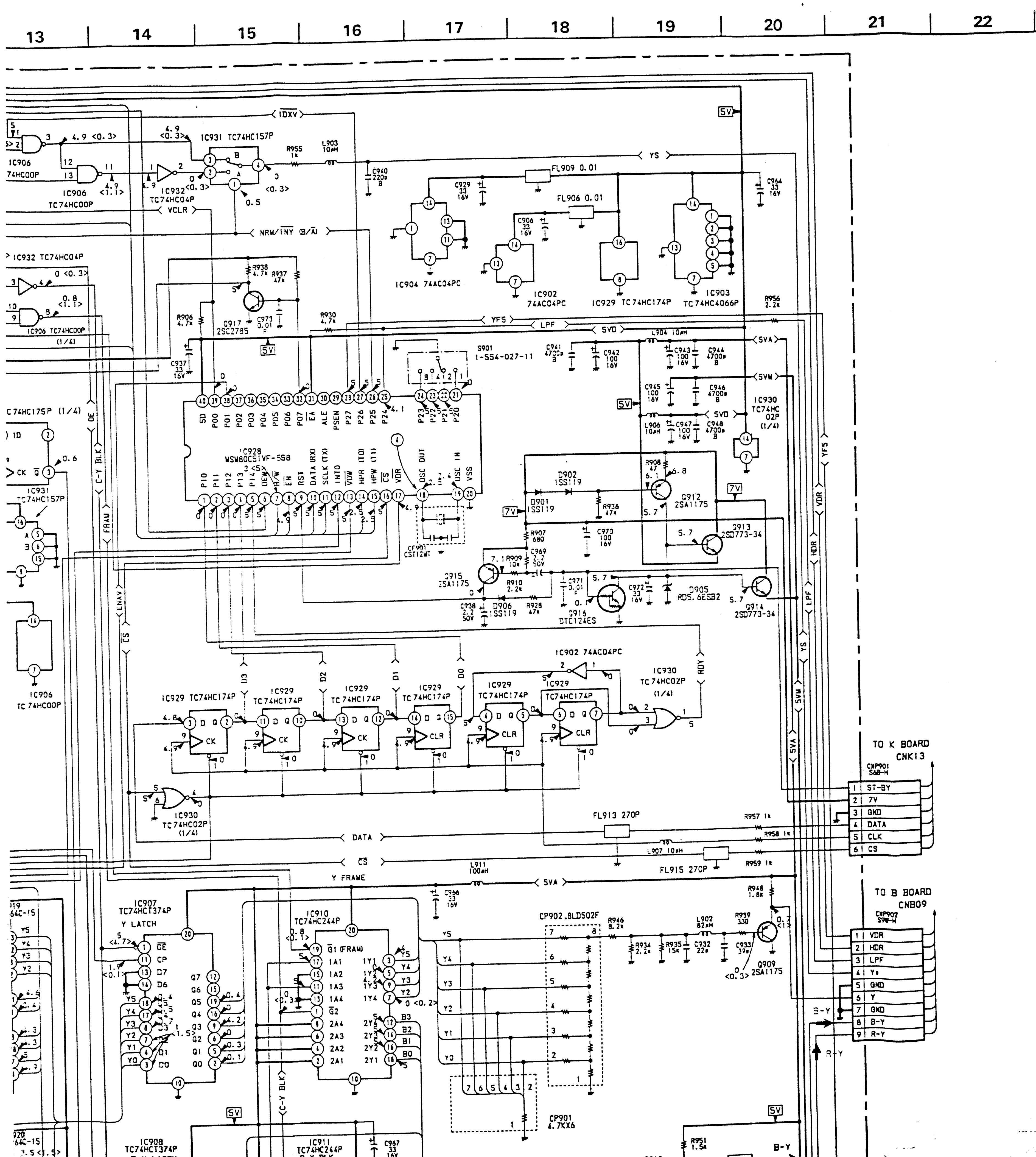
– J1 Board –

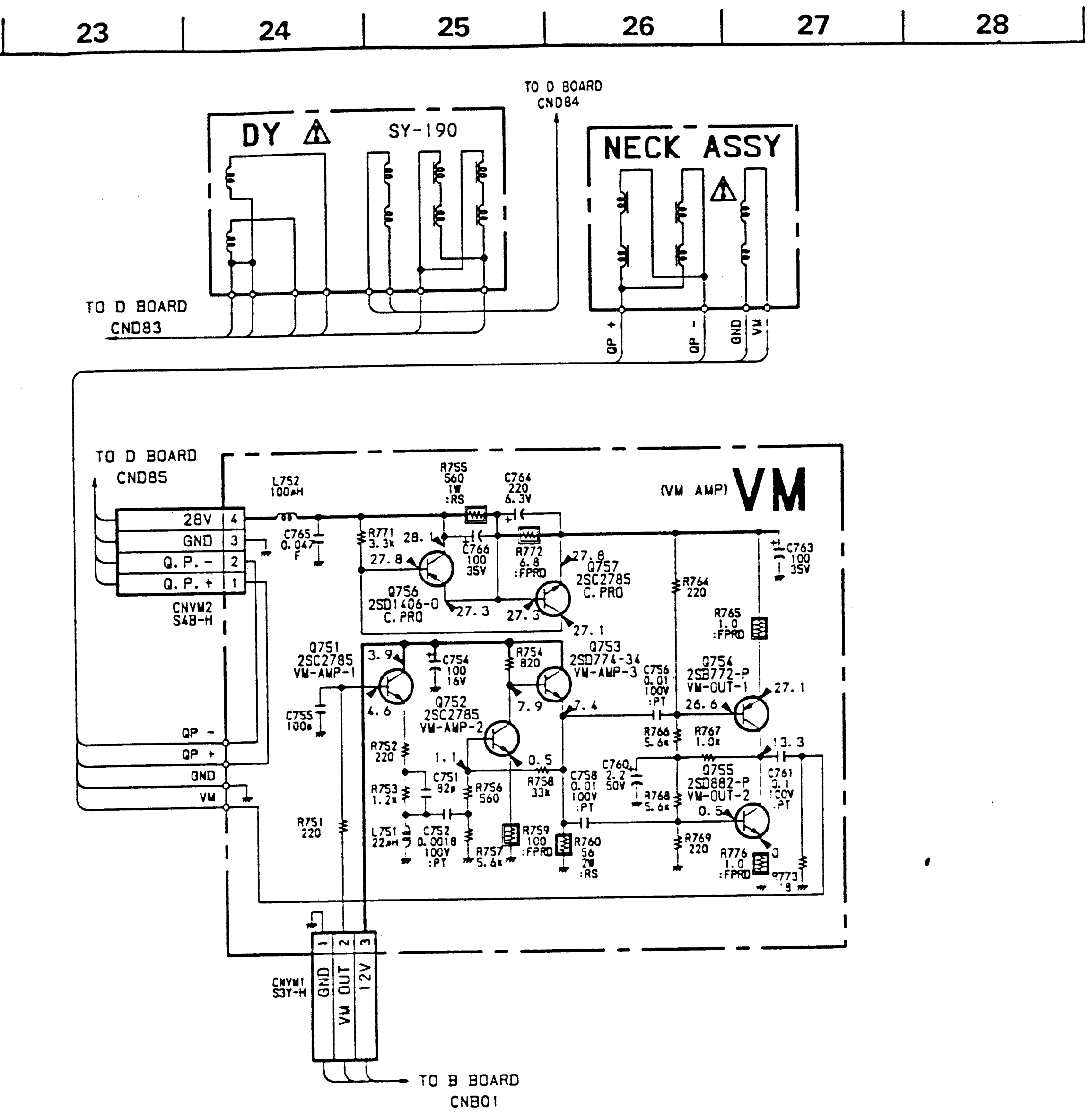


CNJ08
CNJ07
S1401
S1402
Q1401
Q1402
Q1403
Q1404
Q1405
IC1401
IC1404
CNJ04
CNJ03
CNJ05
CNJ06
L.SP OUT
R.SP OUT
AV2 VIDEO
M.V. OUT
AV IN
AV1 L IN
AV1 R IN
L OUT
R OUT
L IN
R IN
S1403
CNJ01
CNJ02
Q1409
Q1408
J1
SONY
S-78
1-628-831-12


E
F
G
H
I
J
K
L
M
N
O
TO P BOARD
CNP901
CNK13 S6B-H
CS
CLK
DATA
GND
7V
ST-BY
TO B BOARD
CNB04
CNK14 S4R-H
VDW
HDW
GND
C BKG
TO J1 BOARD
CNJ01
CNK01 B-TO-B
ATV L OUT
ATV R OUT
GND AU
ATV L IN
ATV R IN
GND AU
R
G
B
GND
BLK
SUB VID IN
12V
MOD 3
GND
VIDEO OUT
GND
V TV IN
GND (VAL)
VAL L OUT
(VAL GND)
VAL R OUT
GND
NC
NC
GND
SCL
SDA
GND
S CROMA
GND
S SWITCH
IC001
M37100M8-616SP
IC002
MB89009-103
IC003
PCD8582
IC004
LA7016
IC005
µPC574J
33V-REG
IC006
MSM5256RS
IC007
LA7016
X001
X002
Q001
2SA1175
RESET
Q002
2SC2785
PULS-AMP
Q003
2SC2785
V-OUT
Q004
2SA1175
SYNC-BUFF-2
Q005
2SA1175
SYNC-BUFF-1
Q006
2SD1761-D
5V-REG-OUT
Q007
2SC2785
Q009
DTC144ES
PULS-AMP
Q013
DTC144ES
AV-SW
Q014
DTC144ES
S-SW
Q015
DTC144ES
Q016
DTC144ES
Q019
2SC2785
Q207
2SC2785
MUTE-3
D002
RD5.6ES-B2
D003
RD5.6ES-B2
5.6V-REG
D007
1SS119
STOPPER
D008
1SS119
D011
RD3.9ES-B1
3.5V-REG
D012
1SS119
STOPPER
D013
1SS119
STOPPER
5V
GND
12V
7V
35V
33V
AUDIO
VIDEO
CNK05 B-TO-B
TO B BOARD
CNB05
CNK06 B-TO-B
TO B BOARD
CNB06
CNK03 B-TO-B
TO A BOARD
CNA01
CNK04 B-TO-B
TO A BOARD
CNA02
CNK21 D1P
TO B BOARD CNB11
CNK22 S2P-H
TO F1 BOARD
CNF08
TP92
M50/60
ST-BY
BLK 3
B IN
G IN
R IN
SCP
AV 3
MUTE
CHR
+BLK
VIDEO IN
S SWITCH
S CROMA
SUB VIDEO
PIC
COL
BRT
SHARP
HUE
S SYSTEM SW
M/S
NT4.43
NT3.58
SECAM
PAL
S 50/60
CSP 2
SYNC
AOC
33V
AFT
TV OUT
PRC
4 LEVEL
R OUT
L OUT
SDA
SCL
SUB TV OUT
S-AV1
W BLK
35V
RESP
SIRC
KI 1
KI 0
KO 0
MAIN
50/60
SCP
HAFC
BLK
PIX
BRT
H PU
V PU
135V
ST-BY
TXD
HDR
VDR


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J
K
IC901 CXD1093Q
MP2 controller
TO B BOARD
CNB10
CNP903
S8V-H
VDW
HDW
C. SYNC
GND
Y
GND
B-Y
R-Y
VDR
HDR
SVD
CS+VDR
VCLR
IDXV
NRM/INY (B/A)
Y. CLAMP
5V
IC906 TC74HC00P (1/4)
IC904 74AC04PC
IC903 TC74HC4066P (1/2)
IC902 74AC04PC (1/6)
IC930 TC74HC02P (1/4)
IC902 74AC04P
IC931 TC74HC157P
IC932 TC74HC04P
IC905 TC74HC175P (1/4)
IC928 MSM80C51VF-558
IC929 TC74HC174P
IC912 M52678P
IC913 M52681P
IC914 TC74HCT04P
IC915 TC74HCT04P
IC917 TC74HC374P
B-Y LATCH
IC907 TC74HCT374P
Y LATCH
IC908 TC74HCT374P
B-Y LATCH
IC910 TC74HC244P
IC911 TC74HC244P
R-Y BLK
IC925 μPD41264C-15
IC922 μPD41264C-15
IC919 μPD41264C-15
IC926 μPD41264C-15
IC923 μPD41264C-15
IC920 μPD41264C-15
Q906 2SA1175
Q901 2SA1175
Q904 2SA1175
Q905 2SA1175
Q917 2SC2785
T902 1-404-608-11
T901 1-404-608-11
FL907 220P
FL901 270P
FL903 270P
D904 1T33
D903 1T33
L912 10μH
L913 10μH
L914 10μH
L915 10μH
L901 1mH
FRAM
ENAV
C-Y BLK
CS
OE
Y FRA


13
14
15
16
17
18
19
20
21
22
IC931 TC74HC157P
IC906 TC74HC00P
IC932 TC74HC04P
IC904 74AC04PC
IC902 74AC04PC
IC929 TC74HC174P
IC903 TC74HC4066P
IC928 MSM80C51VF-558
IC930 TC74HC02P
S901 1-554-027-11
Q912 2SA1175
Q913 2SD773-34
Q914 2SD773-34
Q915 2SA1175
Q916 DTC124ES
Q917 2SC2785
D902 1SS119
D901 1SS119
D905 RD5.6ESB2
D906 1SS119
CF901 CST12MT
FL909 0.01
FL906 0.01
FL913 270P
FL915 270P
IC907 TC74HCT374P Y LATCH
IC910 TC74HC244P
IC908 TC74HCT374P
IC911 TC74HC244P
CP902 8LD502F
CP901 4.7KX6
Q909 2SA1175
TO K BOARD CNK13
CNP901 S6B-H
1 ST-BY
2 7V
3 GND
4 DATA
5 CLK
6 CS
TO B BOARD CNB09
CNP902 S9W-H
1 VDR
2 HDR
3 LPF
4 Ys
5 GND
6 Y
7 GND
8 B-Y
9 R-Y
IDXV
YS
VCLR
NRM/INY (B/A)
YFS
LPF
SVD
SVA
SVM
DATA
CS
Y FRAME
C-Y BLK
FRAU
ENAV
RDY
VDR
HDR
B-Y
R-Y
5V
7V

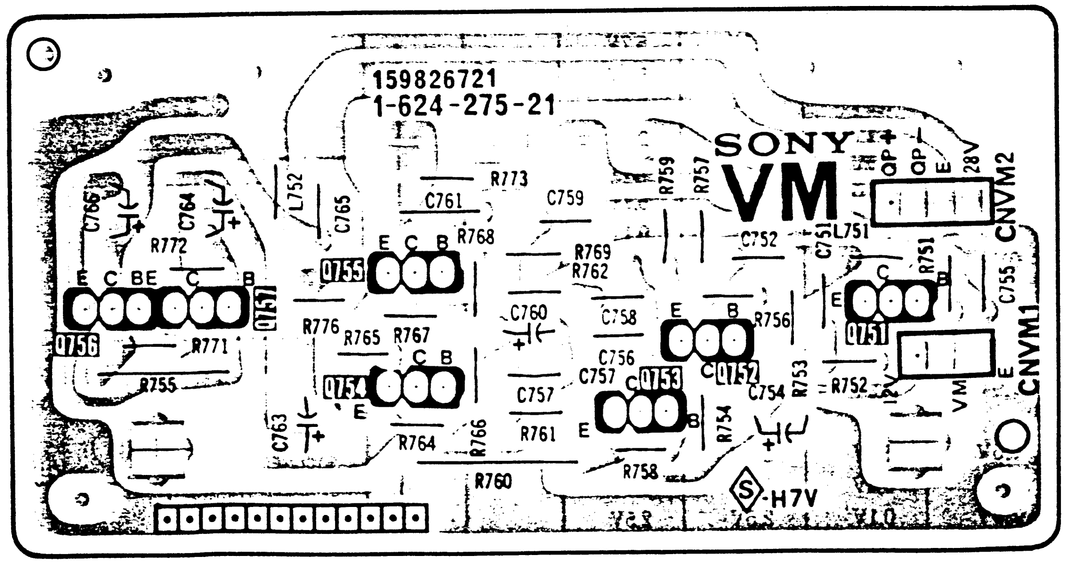

23
24
25
26
27
28
TO D BOARD CND84
DY
SY-190
NECK ASSY
TO D BOARD CND83
QP +
QP -
GND
VM
TO D BOARD CND85
28V
GND
Q.P. -
Q.P. +
CNVM2 S4B-H
(VM AMP) VM
Q751 2SC2785 VM-AMP-1
Q752 2SC2785 VM-AMP-2
Q753 2SD774-34 VM-AMP-3
Q754 2SB772-P VM-OUT-1
Q755 2SD882-P VM-OUT-2
Q756 2SD1406-O C.PRO
Q757 2SC2785 C.PRO
CNVM1 S3Y-H
GND
VM OUT
12V
TO B BOARD CNB01

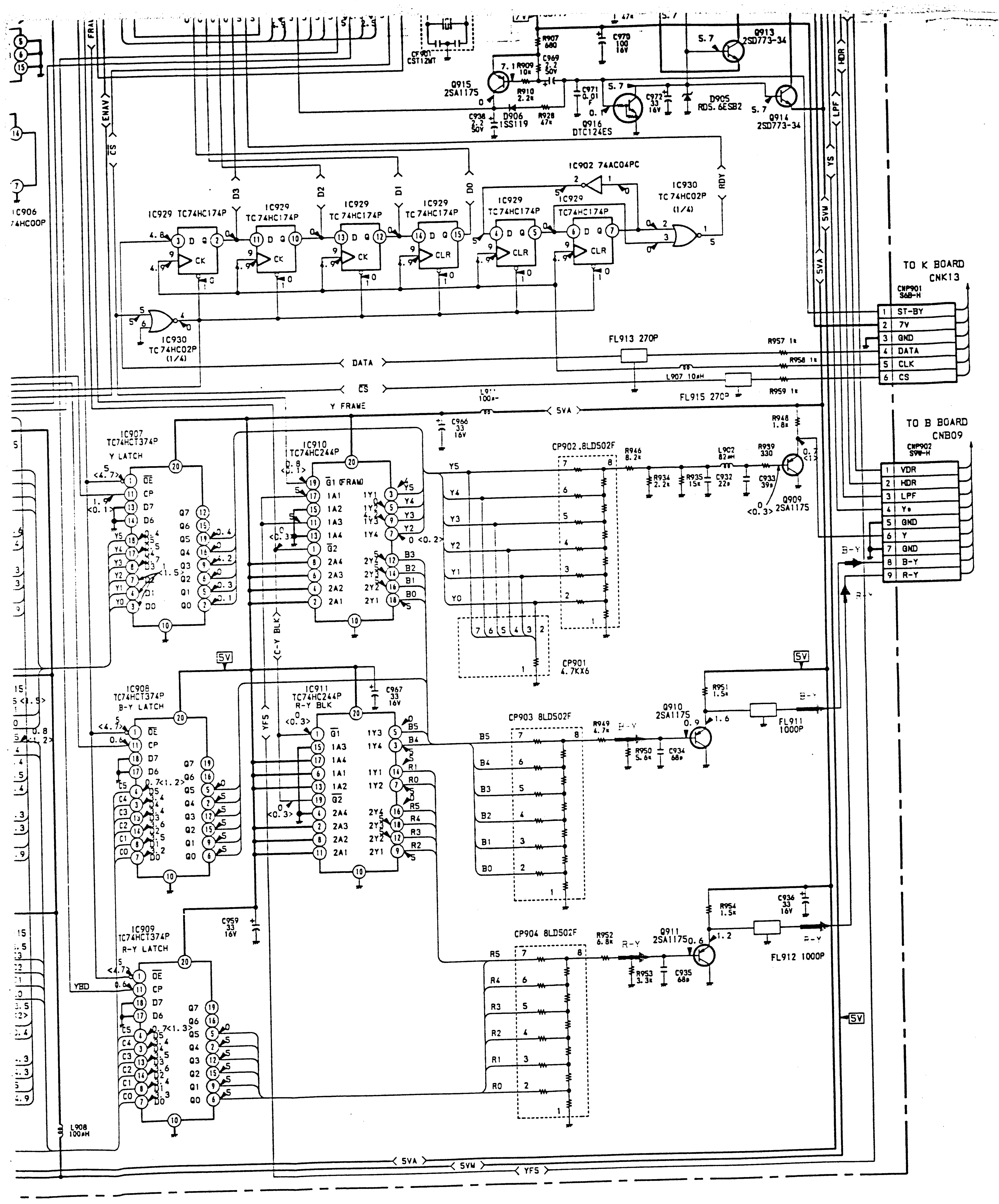
VM [VM AMP]

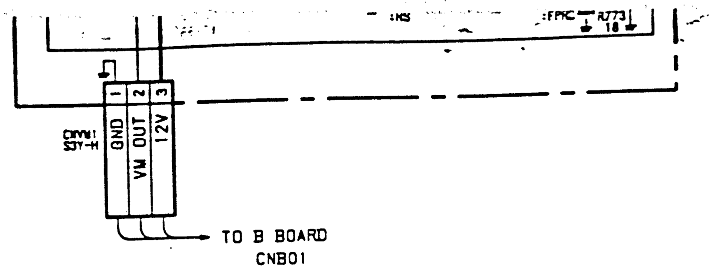
PRINTED WIRING BOARDS

–Conductor Side–

– VM Board –


159826721
1-624-275-21
SONY
VM
CNVM2
CNVM1
H7V
Q751
Q752
Q753
Q754
Q755
Q756
Q757


IC929 TC74HC174P
IC902 74AC04PC
IC930 TC74HC02P (1/4)
Q915 2SA1175
Q916 DTC124ES
Q913 2SD773-34
Q914 2SD773-34
D905 RD5.6ESB2
D906 1SS119
CF901 CST12MT
TO K BOARD CNK13
CNP901 S6B-H
ST-BY
7V
GND
DATA
CLK
CS
FL913 270P
FL915 270P
L907 10μH
R957 1k
R958 1k
R959 1k
TO B BOARD CNB09
CNP902 S9B-H
VDR
HDR
LPF
Y*
GND
Y
GND
B-Y
R-Y
IC907 TC74HCT374P Y LATCH
IC910 TC74HC244P
IC908 TC74HCT374P B-Y LATCH
IC911 TC74HC244P R-Y BLK
IC909 TC74HCT374P R-Y LATCH
CP902 8LD502F
CP903 8LD502F
CP904 8LD502F
CP901 4.7KX6
Q909 2SA1175
Q910 2SA1175
Q911 2SA1175
FL911 1000P
FL912 1000P
L908 100μH
Y FRAME
DATA
CS
5VA
5VW
YFS
HDR
LPF
YS
RDY
ENAV
C-Y BLK
YBD
5V

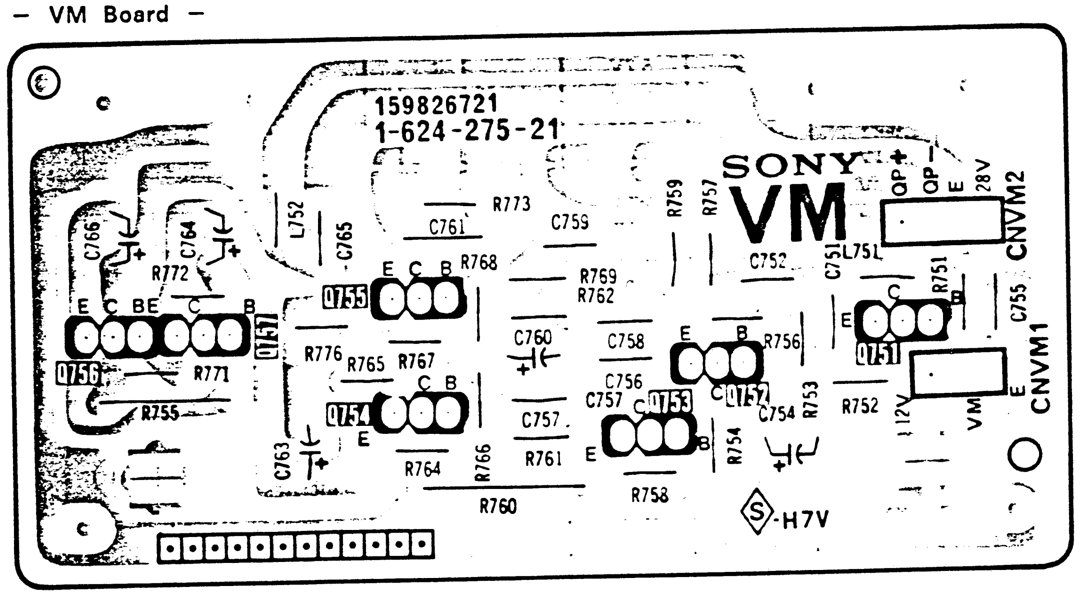

CNVM1 S3Y-H
GND
VM OUT
12V
TO B BOARD
CNB01

VM [VM AMP]

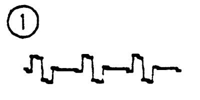
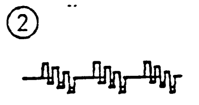
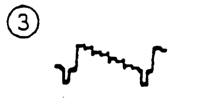
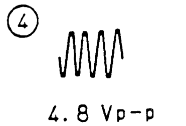
PRINTED WIRING BOARDS

–Conductor Side–

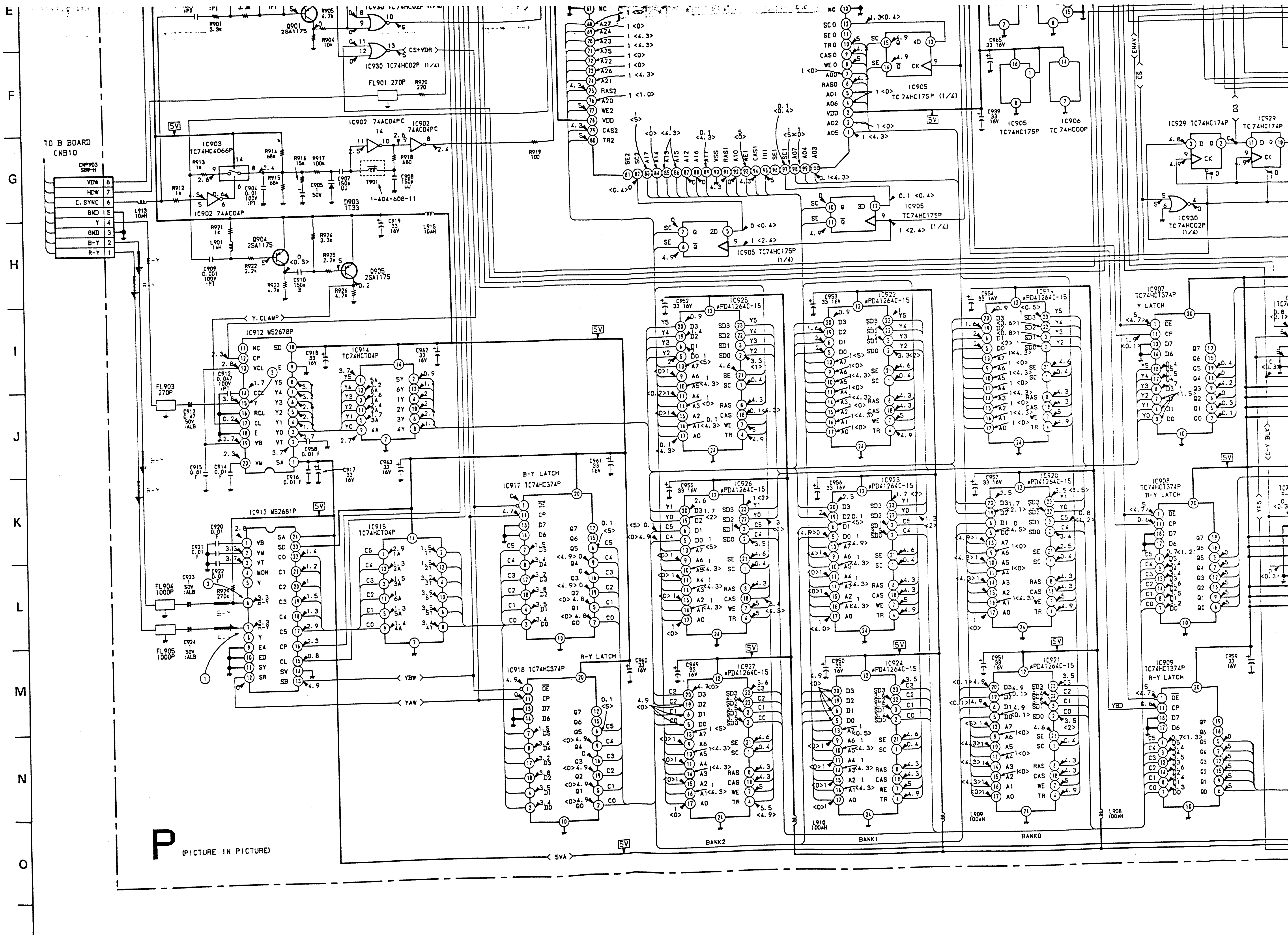
– VM Board –

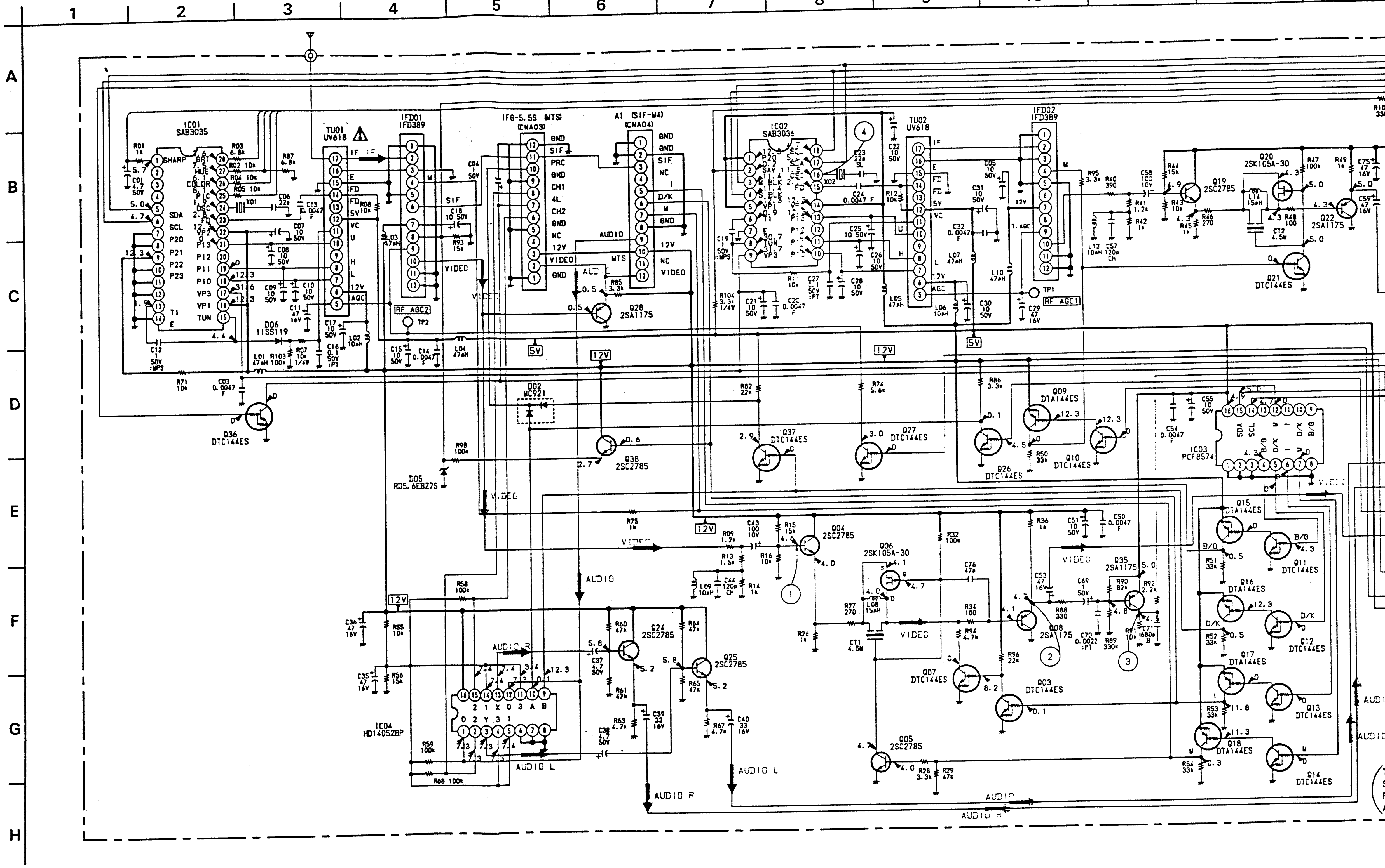

159826721
1-624-275-21
SONY
VM
CNVM2
CNVM1
Q751
Q752
Q753
Q754
Q755
Q756
Q757
C752
C754
C755
C756
C757
C758
C759
C760
C761
C763
C764
C765
C766
R751
R752
R753
R754
R755
R756
R757
R758
R759
R760
R761
R762
R764
R765
R766
R767
R768
R769
R771
R772
R773
R776
L751
L752
28V
12V
VM
OP+
OP-
E
H7V

● P BOARD WAVEFORM

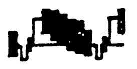
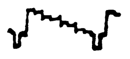
①  0.8 Vp-p (H)	②  0.7 Vp-p (H)	③  1.0 Vp-p (H)	④  4.8 Vp-p (10MHz)

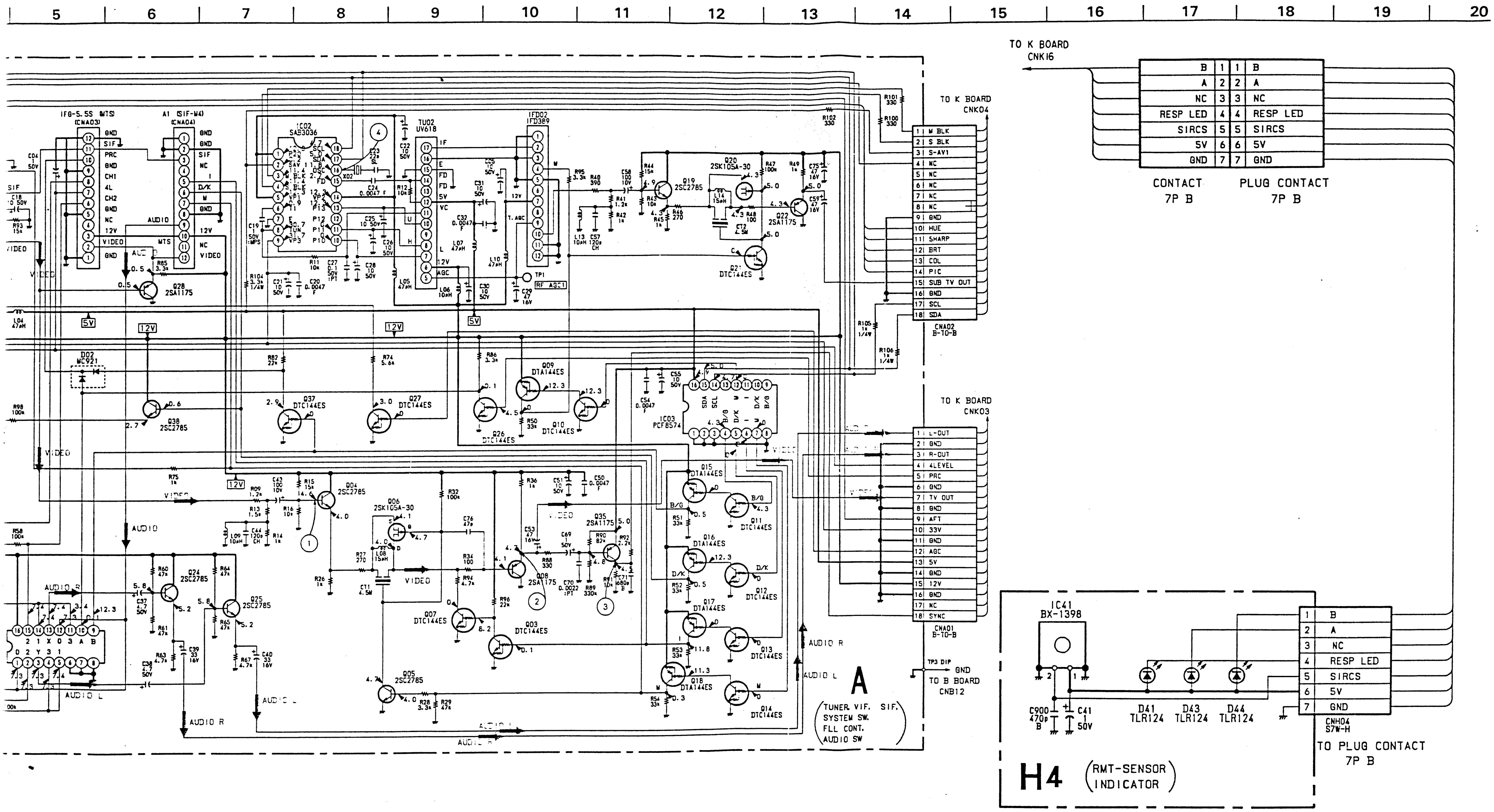
The voltage value on the P board indicating with< >is the one at receiving Picture in picture (P/P)


E
F
G
H
I
J
K
L
M
N
O
TO B BOARD
CNB10
CNP903
VDW
HDW
C.SYNC
GND
Y
GND
B-Y
R-Y
5V
IC903 TC74HC4066P
IC902 74AC04P
IC902 74AC04PC
IC930 TC74HC02P (1/4)
CS+VDR
FL901 270P
R920 270
Q901 2SA1175
Q904 2SA1175
Q905 2SA1175
D903 1T33
T901
1-404-608-11
L913 10uH
L915 10uH
L901 1uH
Y. CLAMP
IC912 M52678P
IC914 TC74HCT04P
IC913 M52681P
IC915 TC74HCT04P
FL903 270P
FL904 1000P
FL905 1000P
B-Y LATCH
IC917 TC74HC374P
R-Y LATCH
IC918 TC74HC374P
YBW
YAW
IC905 TC74HC175P (1/4)
IC905 TC74HC175P
IC906 TC74HC00P
IC929 TC74HC174P
IC930 TC74HC02P (1/4)
IC925 μPD41264C-15
IC922 μPD41264C-15
IC919 μPD41264C-15
IC926 μPD41264C-15
IC923 μPD41264C-15
IC920 μPD41264C-15
IC927 μPD41264C-15
IC924 μPD41264C-15
IC921 μPD41264C-15
BANK2
BANK1
BANK0
L910 100uH
L909 100uH
L908 100uH
IC907 TC74HCT374P
Y LATCH
IC908 TC74HCT374P
B-Y LATCH
IC909 TC74HCT374P
R-Y LATCH
YBD
C-Y BLK
YFS
CS
ENAV
D3
5VA
P
(PICTURE IN PICTURE)

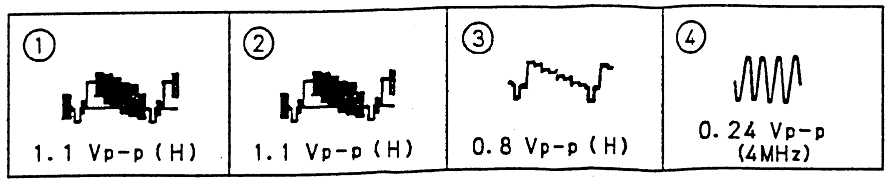

1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
IC01 SAB3035
TU01 UV618
IFD01 IFD389
IF6-5.5S MTS (CNA03)
A1 (SIF-M4) (CNA04)
IC02 SAB3036
TU02 UV618
IFD02 IFD389
IC03 PCF8574
IC04 HD14052BP
Q36 DTC144ES
Q28 2SA1175
Q38 2SC2785
Q37 DTC144ES
Q27 DTC144ES
Q26 DTC144ES
Q09 DTA144ES
Q10 DTC144ES
Q19 2SC2785
Q20 2SK105A-30
Q21 DTC144ES
Q22 2SA1175
Q04 2SC2785
Q06 2SK105A-30
Q08 2SA1175
Q35 2SA1175
Q07 DTC144ES
Q03 DTC144ES
Q05 2SC2785
Q24 2SC2785
Q25 2SC2785
Q15 DTA144ES
Q11 DTC144ES
Q16 DTA144ES
Q12 DTC144ES
Q17 DTA144ES
Q13 DTC144ES
Q18 DTA144ES
Q14 DTC144ES
D02 MC921
D05 RD5.6EBZ7S
D06 1SS119
RF AGC2
RF AGC1
TP1
TP2
12V
5V
VIDEO
AUDIO
AUDIO R
AUDIO L
SIF
MTS
B/G
D/K
M
I

● A BOARD WAVEFORM

①	②	③
		
1.1 Vp-p (H)	1.1 Vp-p (H)	0.8 Vp-p (H)

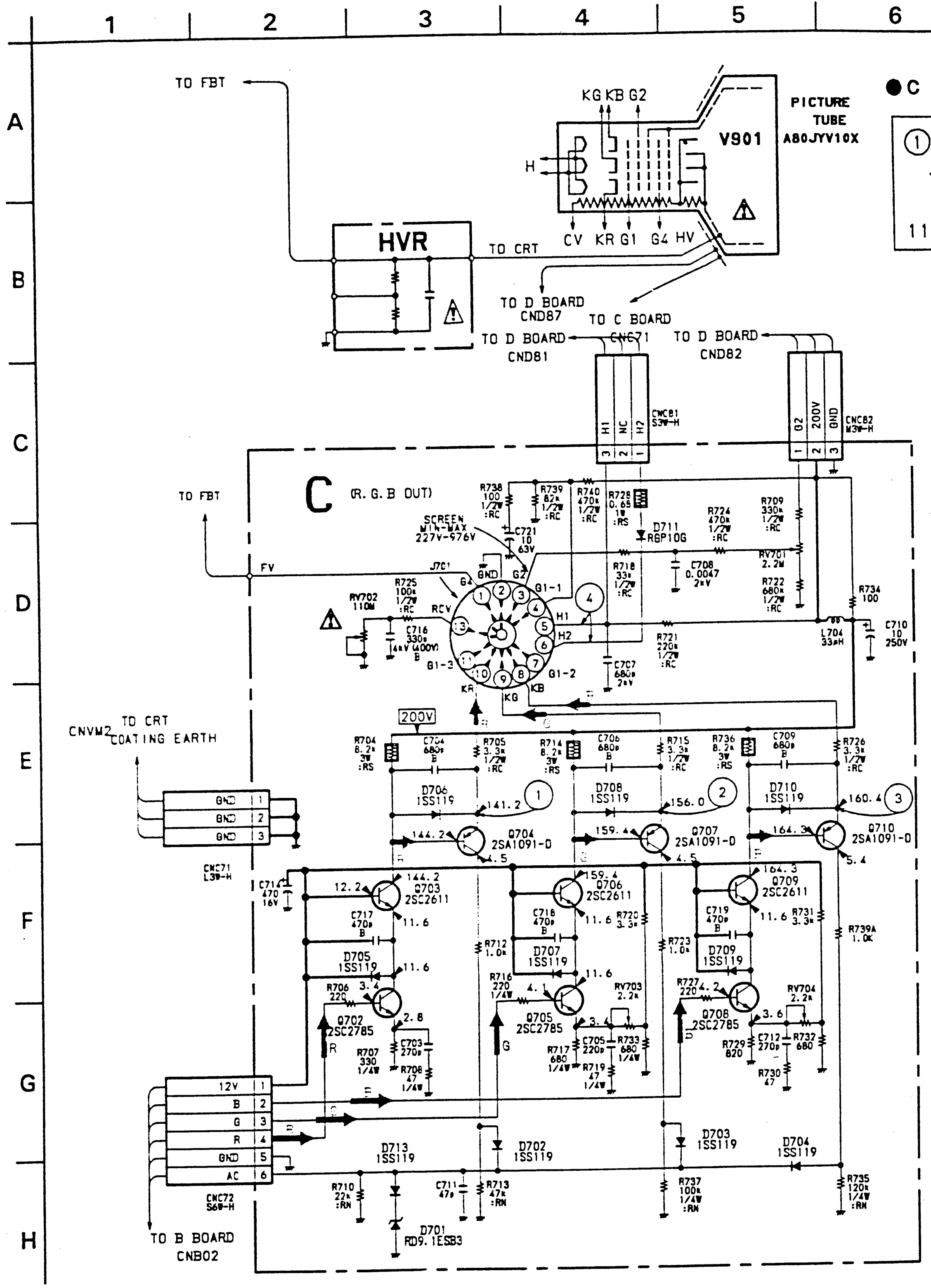

5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
IF8-5.5S (MTS) (CNA03)
A1 (SIF-M4) (CNA04)
IC02 SAB3036
TU02 UV618
IFD02 IFD389
IC03 PCF8574
Q19 2SC2785
Q20 2SK105A-30
Q22 2SA1175
Q21 DTC144ES
Q28 2SA1175
Q38 2SC2785
Q37 DTC144ES
Q27 DTC144ES
Q09 DTA144ES
Q10 DTC144ES
Q26 DTC144ES
Q04 2SC2785
Q06 2SK105A-30
Q08 2SA1175
Q35 2SA1175
Q07 DTC144ES
Q03 DTC144ES
Q05 2SC2785
Q24 2SC2785
Q25 2SC2785
Q15 DTA144ES
Q11 DTC144ES
Q16 DTA144ES
Q12 DTC144ES
Q17 DTA144ES
Q13 DTC144ES
Q18 DTA144ES
Q14 DTC144ES
D02 MC921
RF AGC
TP1
5V
12V
VIDEO
AUDIO
AUDIO R
AUDIO L
SIF
TO K BOARD CNK16
TO K BOARD CNK04
TO K BOARD CNK03
1 M BLK
2 S BLK
3 S-AV1
4 NC
5 NC
6 NC
7 NC
8 NC
9 GND
10 HUE
11 SHARP
12 BRT
13 COL
14 PIC
15 SUB TV OUT
16 GND
17 SCL
18 SDA
CNA02 B-TO-B
1 L-OUT
2 GND
3 R-OUT
4 4LEVEL
5 PRC
6 GND
7 TV OUT
8 GND
9 AFT
10 33V
11 GND
12 AGC
13 5V
14 GND
15 12V
16 GND
17 NC
18 SYNC
CNA01 B-TO-B
TP3 DIP
GND
TO B BOARD CNB12
A
TUNER, VIF, SIF, SYSTEM SW, PLL CONT, AUDIO SW
B 1 1 B
A 2 2 A
NC 3 3 NC
RESP LED 4 4 RESP LED
SIRCS 5 5 SIRCS
5V 6 6 5V
GND 7 7 GND
CONTACT 7P B
PLUG CONTACT 7P B
IC41 BX-1398
C900 470p B
C41 1 50V
D41 TLR124
D43 TLR124
D44 TLR124
1 B
2 A
3 NC
4 RESP LED
5 SIRCS
6 5V
7 GND
CNH04 S7W-H
TO PLUG CONTACT 7P B
H4
(RMT-SENSOR INDICATOR)

● A BOARD WAVEFORM

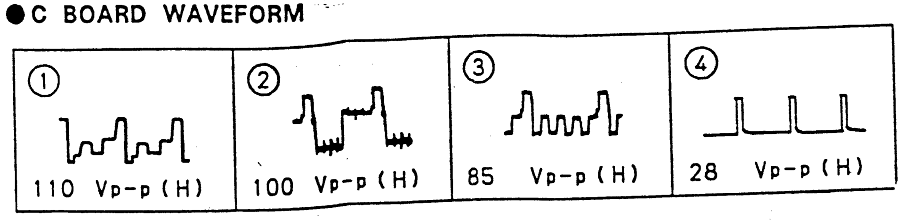

①
1.1 Vp-p (H)
②
1.1 Vp-p (H)
③
0.8 Vp-p (H)
④
0.24 Vp-p (4MHz)

C [R, G, B OUT]

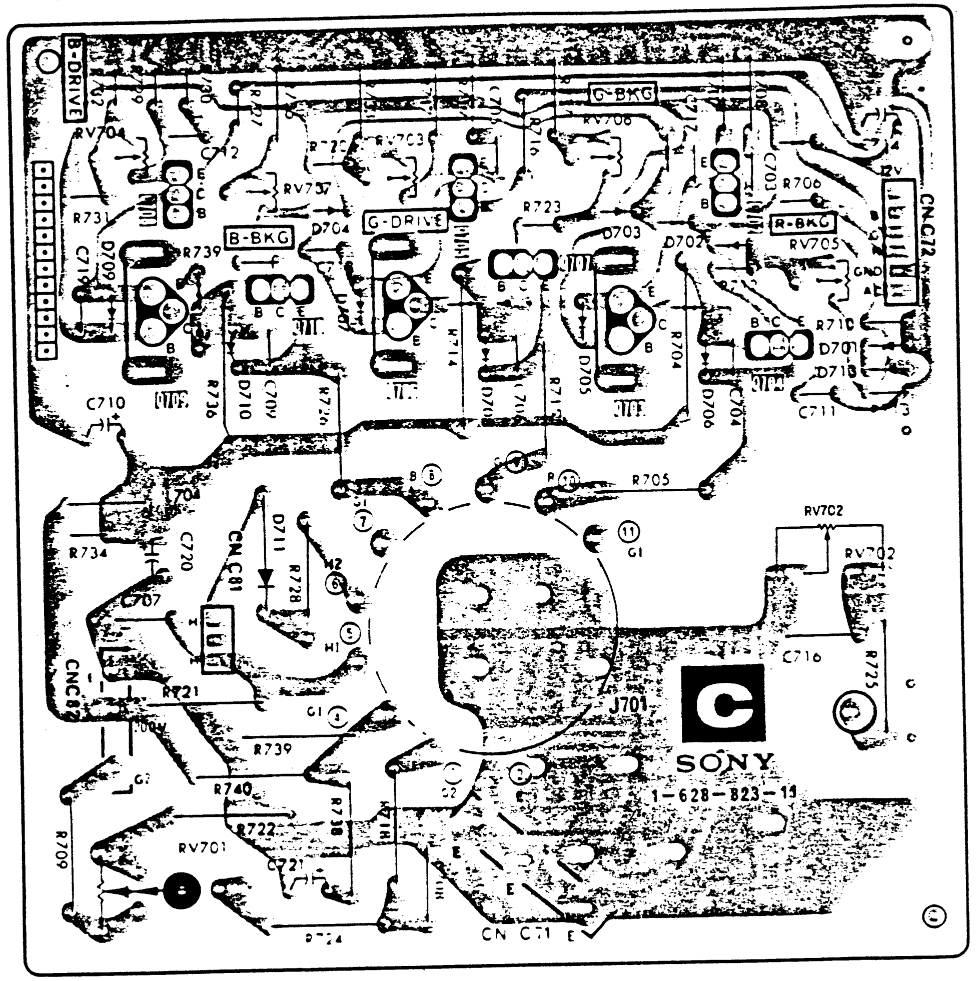
SCHEATIC DIAGRAMS


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
TO FBT
KG KB G2
PICTURE TUBE
V901
A80JYV10X
H
CV KR G1 G4 HV
HVR
TO CRT
TO D BOARD CND87
TO C BOARD CNC71
TO D BOARD CND81
TO D BOARD CND82
CNC81 S3P-H
H1 NC H2
CNC82 M3P-H
G2 200V GND
C (R. G. B OUT)
TO FBT
FV
SCREEN MIN-MAX 227V-676V
RV702 110M
R725 100k 1/2W :RC
C716 330p 4kV (400V) B
J701
G4 GND G2 G1-1
G1-3 G1-2
H1 H2
KR KG KB
R738 100 1/2W :RC
R739 82k 1/2W :RC
R740 470k 1/2W :RC
R728 0.68 1W :RS
C721 10 63V
D711 RBP10G
R718 33k 1/2W :RC
C708 0.0047 2kV
R724 470k 1/2W :RC
R709 330k 1/2W :RC
RV701 2.2M
R722 680k 1/2W :RC
R721 270k 1/2W :RC
C707 680p 2kV
R734 100
L704 33µH
C710 10 250V
200V
TO CRT COATING EARTH
CNVM2
GND GND GND
CNC71 L3P-H
R704 8.2k 3W :RS
C704 680p B
R705 3.3k 1/2W :RC
R714 8.2k 3W :RS
C706 680p B
R715 3.3k 1/2W :RC
R736 8.2k 3W :RS
C709 680p B
R726 3.3k 1/2W :RC
D706 1SS119
D708 1SS119
D710 1SS119
141.2
156.0
160.4
144.2
159.4
164.3
Q704 2SA1091-O
Q707 2SA1091-O
Q710 2SA1091-O
4.5
5.4
C714 470 16V
12.2
Q703 2SC2611
C717 470p B
11.6
D705 1SS119
R706 220
Q702 2SC2785
3.4
2.8
R707 330 1/4W
C703 270p
R708 47 1/4W
Q706 2SC2611
C718 470p B
R720 3.3k
D707 1SS119
R712 1.0k
R716 220 1/4W
Q705 2SC2785
RV703 2.2k
C705 220p
R733 680 1/4W
R717 680 1/4W
R719 47 1/4W
Q709 2SC2611
C719 470p B
R731 3.3k
D709 1SS119
R723 1.0k
R727 220
Q708 2SC2785
RV704 2.2k
C712 270p
R732 680
R729 820
R730 47
R739A 1.0K
R G B
12V B G R GND AC
CNC72 S6P-H
TO B BOARD CNB02
D713 1SS119
D702 1SS119
D703 1SS119
D704 1SS119
R710 22k :RN
D701 RD9.1ESB3
C711 47p
R713 47k :RN
R737 100k 1/4W :RN
R735 120k 1/4W :RN

● C BOARD WAVEFORM

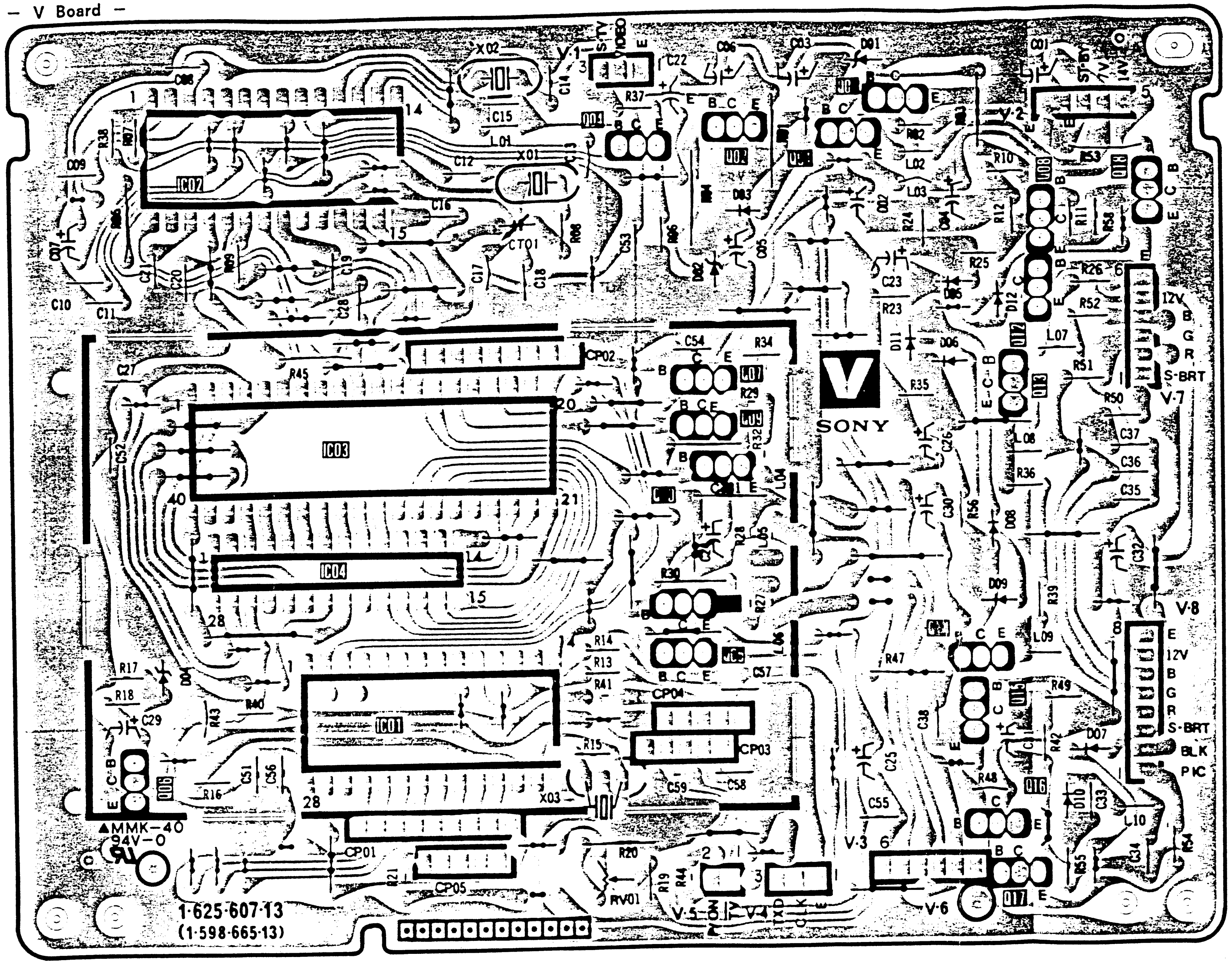


PRINTED WIRING BOARD
—Conductor Side—
— C Board —

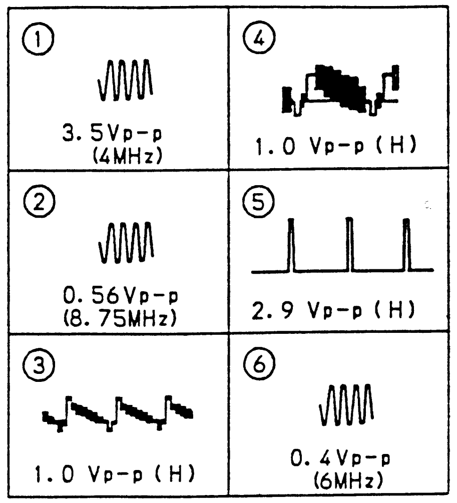

B-DRIVE
G-BKG
B-BKG
G-DRIVE
R-BKG
CN C72
RV704
RV737
RV703
RV706
RV705
RV702
RV701
D702
D703
D704
D709
D710
D711
C710
C711
C716
C720
C707
R731
R739
R734
R721
R740
R722
R709
R724
R725
R705
J701
CN C81
CN C82
CN C71
SONY
1-628-823-11
C

[TEXT] **V** **V**

PRINTED WIRING BOARD
—Conductor Side—
— V Board —

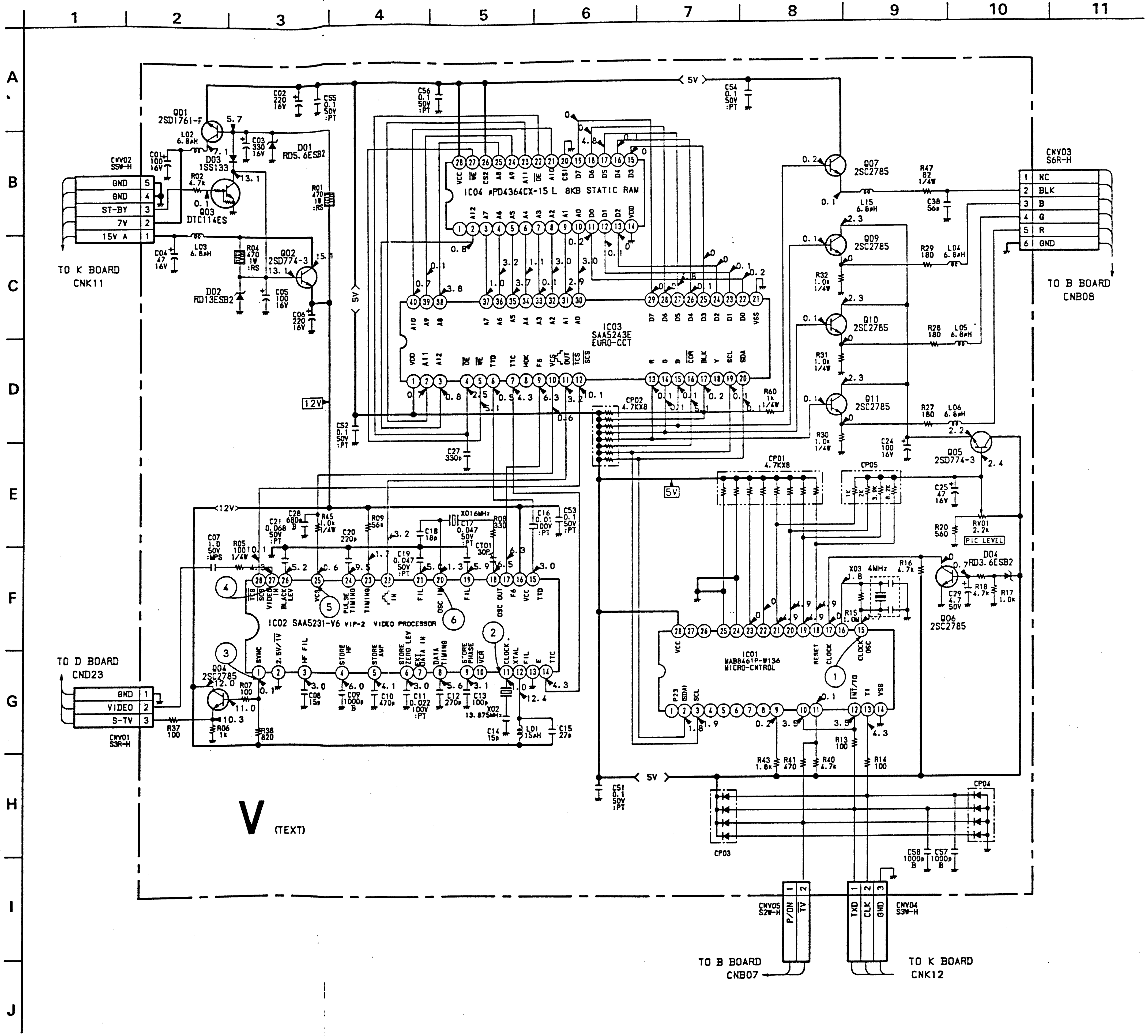

IC01
IC02
IC03
IC04
CP01
CP02
CP03
CP04
CP05
X01
X02
X03
CT01
RV01
V
SONY
V-1
V-2
V-3
V-5
V-6
V-7
V-8
S-TV
VIDEO
E
12V
B
G
R
S-BRT
BLK
PIC
▲MMK-40
94V-0
1-625-607-13
(1-598-665-13)

● V BOARD WAVEFORM



①
3.5Vp-p (4MHz)
④
1.0 Vp-p (H)
②
0.56Vp-p (8.75MHz)
⑤
2.9 Vp-p (H)
③
1.0 Vp-p (H)
⑥
0.4Vp-p (6MHz)

SCHEATIC DIAGRAM



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11
A
B
C
D
E
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H
I
J
5V
Q01 2SD1761-F
Q02 2SD774-3
Q03 DTC114ES
D01 RD5.6ESB2
D02 RD13ESB2
D03 1SS133
CNV02 S5W-H
GND
GND
ST-BY
7V
15V A
TO K BOARD CNK11
IC04 μPD4364CX-15 L 8KB STATIC RAM
IC03 SAA5243E EURO-CCT
12V
CP02 4.7K×8
CP01 4.7K×8
CP05
Q07 2SC2785
Q09 2SC2785
Q10 2SC2785
Q11 2SC2785
Q05 2SD774-3
Q06 2SC2785
CNV03 S6R-H
NC
BLK
B
G
R
GND
TO B BOARD CNB08
RV01 2.2k PIC LEVEL
D04 RD3.6ESB2
X03 4MHz
X01 6MHz
X02 13.875MHz
IC02 SAA5231-V6 VIP-2 VIDEO PROCESSOR
IC01 MAB8461P-W136 MICRO-CNTROL
TO D BOARD CND23
GND
VIDEO
S-TV
CNV01 S3R-H
Q04 2SC2785
V (TEXT)
CP03
CP04
CNV05 S2W-H
P/ON
TV
CNV04 S3W-H
TXD
CLK
GND
TO B BOARD CNB07
TO K BOARD CNK12

PRINTED WIRING BOARD

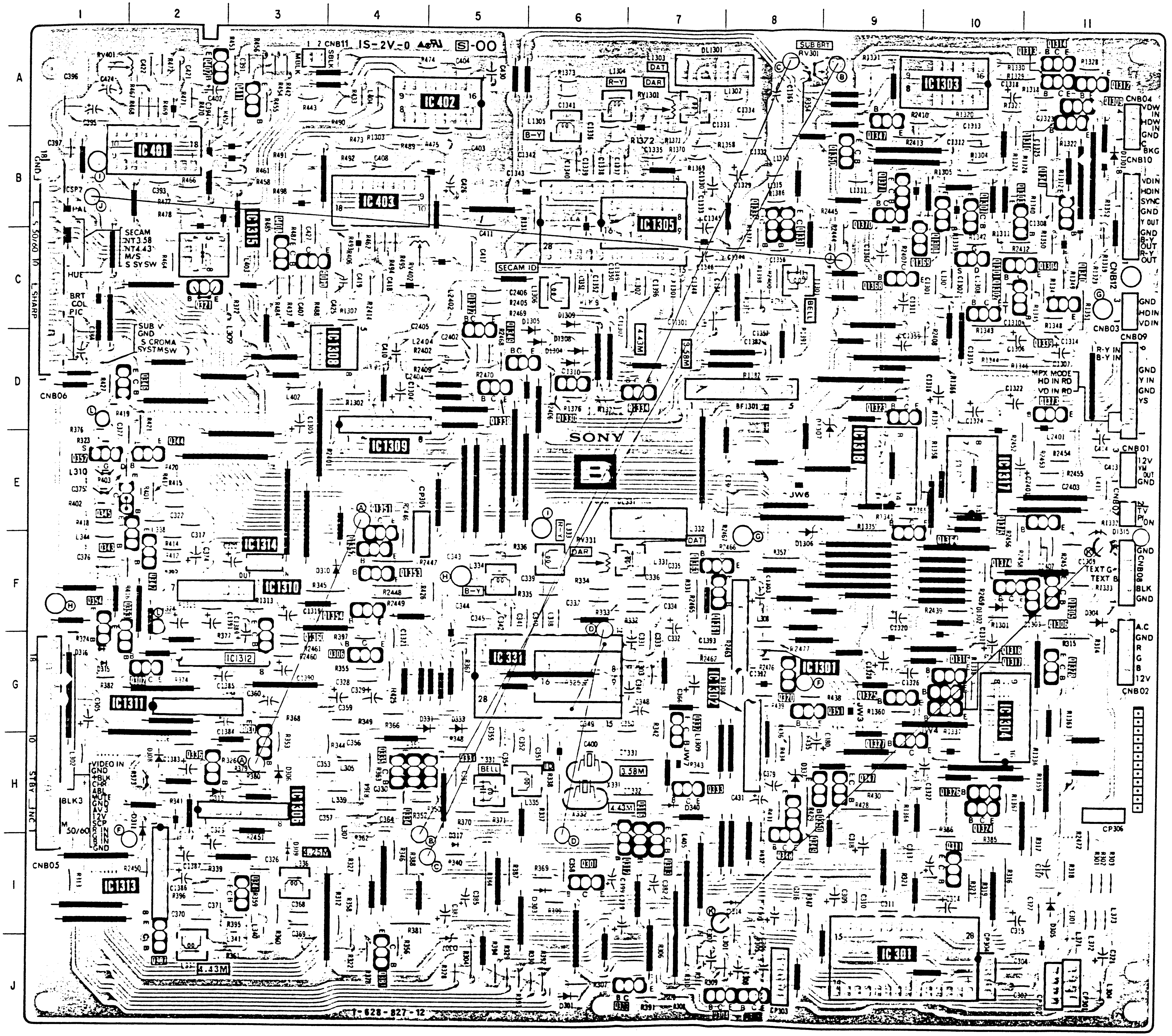
-Conductor Side-

– B Board –

CHROMA DECODER
R, G, B INTERFACE
AV SW CHROMA SW

B

B



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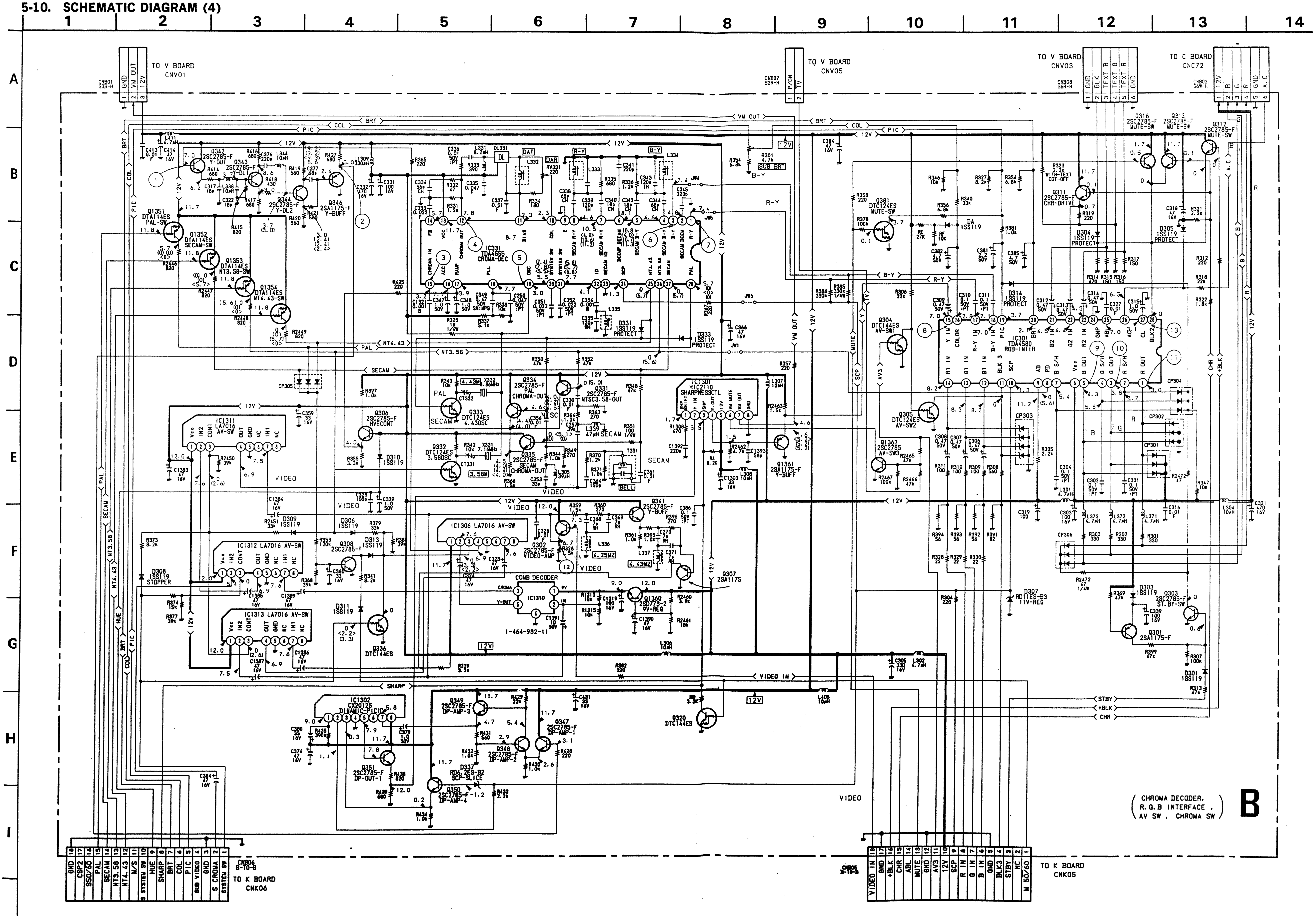
J
1S-2V-0
S-00
SUB BRT
RV301
IC402
IC401
IC403
IC1303
IC1305
IC1315
IC1308
IC1309
IC1314
IC1310
IC1312
IC1311
IC1306
IC1313
IC331
IC1302
IC1301
IC1304
IC1318
IC1317
IC301
SECAM ID
SONY
BF1301
CNB11
CNB04
CNB10
CNB12
CNB03
CNB09
CNB01
CNB07
CNB08
CNB02
CNB05
CNB06
CP305
CP306
CP303
CSP2
HUE
BRT
COL
PIC
SECAM
NT3.58
NT4.43
M/S
S SYSW
SUB V
GND
S CROMA
SYSTMSW
VDW IN
HDW IN
GND
BKG
VDIN
HDIN
SYNC
GND
Y OUT
GND
B-Y OUT
R-Y OUT
GND
HDIN
VDIN
R-Y IN
B-Y IN
GND
Y IN
GND
YS
MPX MODE
HD IN RD
VD IN RD
12V
VM OUT
GND
TV
PI
ON
GND
BLK
GND
TEXT G
TEXT B
A.C
GND
R
G
B
12V
VIDEO IN
GND
BLK3
50/60
STBY
L SHARP
4.43M
3.58M
4.25M
JW6
DAT
DAR
R-Y
B-Y
BELL
1-628-827-12

5-10. SCHEMATIC DIAGRAM (4)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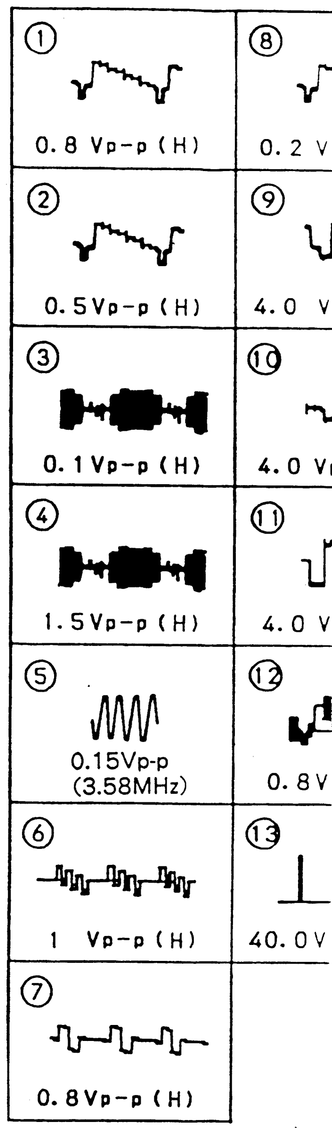
A
B
C
D
E
F
G
H
I
TO V BOARD CNV01
GND
VM OUT
12V
TO V BOARD CNV05
P/ON
TV
TO V BOARD CNV03
GND
BLK
TEXT B
TEXT G
TEXT R
TO C BOARD CNC72
12V
B
G
R
GND
A.C
IC331 TDA4555 CROMA-DEC
IC301 TDA4580 RGB-INTER
IC1301 HIC2110 SHARPNESSCTL
IC1311 LA7016 AV-SW
IC1312 LA7016 AV-SW
IC1313 LA7016 AV-SW
IC1306 LA7016 AV-SW
IC1302 CX20125 DINAMIC-PICTURE
IC1310
COMB DECODER
1-464-932-11
Q1351 DTA114ES PAL-SW
Q1352 DTA114ES SECAM-SW
Q1353 DTA114ES NT3.58-SW
Q1354 DTA114ES NT4.43-SW
Q342 2SC2785-F Y-OUT
Q343 2SC2785-F Y-DL1
Q344 2SC2785-F Y-DL2
Q346 2SA1175-F Y-BUFF
Q381 DTC124ES MUTE-SW
Q316 2SC2785-F MUTE-SW
Q312 2SC2785-F MUTE-SW
Q311 2SC2785-F CHR-DRIVE
Q304 DTC144ES AV-SW1
Q305 DTC124ES AV-SW2
Q1363 2SC2785 AV-SW3
Q306 2SC2785-F HVECONT
Q334 2SC2785-F PAL CHROMA-OUT
Q331 2SC2785-F NTSC3.58-OUT
Q333 DTC124ES 4.43OSC
Q332 DTC124ES 3.58OSC
Q335 2SC2785-F SECAM CHROMA-OUT
Q341 2SC2785-F Y-BUFF
Q1361 2SA1175-F Y-BUFF
Q302 2SC2785-F VIDEO-AMP
Q307 2SA1175
Q308 2SC2785-F
Q1360 2SD773-2 9V-REG
Q336 DTC144ES
Q349 2SC2785-F DP-AMP-3
Q347 2SC2785-F DP-AMP-1
Q348 2SC2785-F DP-AMP-2
Q351 2SC2785-F DP-OUT-1
Q350 2SC2785-F DP-AMP-4
Q320 DTC144ES
Q303 2SC2785-F ST.BY-SW
Q301 2SA1175-F
D307 RD11ES-B3 11V-REG
D337 RD6.2ES-B2 SCP-SLICE
D308 1SS119 STOPPER
D331 1SS119 PROTECT
D333 1SS119 PROTECT
D304 1SS119 PROTECT
D305 1SS119 PROTECT
D314 1SS119 PROTECT
12V
BRT
COL
PIC
PAL
SECAM
NT3.58
NT4.43
VM OUT
B-Y
R-Y
SUB BRT
VIDEO
VIDEO IN
SHARP
STBY
+BLK
CHR
HUE
DAT
DAR
SECAM
BELL
4.25MHZ
4.43MHZ
3.58M
4.43M
(CHROMA DECODER, R.G.B INTERFACE, AV SW, CHROMA SW)
B
CNK06 TO K BOARD
18 GND
17 CSP2
16 S50/60
15 PAL
14 SECAM
13 NT3.58
12 NT4.43
11 M/S
10 S SYSTEM SW
9 HUE
8 SHARP
7 BRT
6 COL
5 PIC
4 SUB VIDEO
3 GND
2 S CROMA
1 SYSTEM SW
CNK05 TO K BOARD
18 VIDEO IN
17 GND
16 +BLK
15 CHR
14 ABL
13 MUTE
12 GND
11 AV3
10 12V
9 SCP
8 R IN
7 G IN
6 B IN
5 GND
4 BLK3
3 STBY
2 NC
1 M 50/60

● B BOARD WAVEFORM

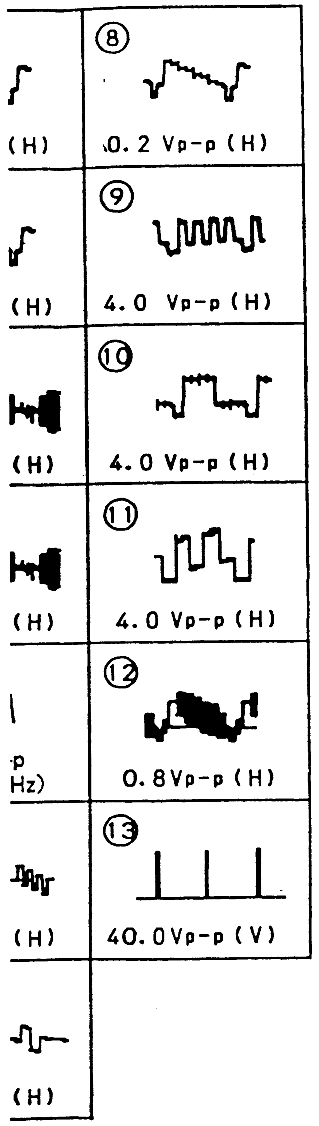


[CHROMA DECODER, R•G•B INTEREFACE, AV SW, CHROMA SW.] **B**

5-11. PRINTED WIRING BOARDS (4)

—conductor side—

) WAVEFORM


(H)
⑧
.0.2 Vp-p (H)
(H)
⑨
4.0 Vp-p (H)
(H)
⑩
4.0 Vp-p (H)
(H)
⑪
4.0 Vp-p (H)
p
Hz)
⑫
0.8Vp-p (H)
(H)
⑬
40.0Vp-p (V)
(H)

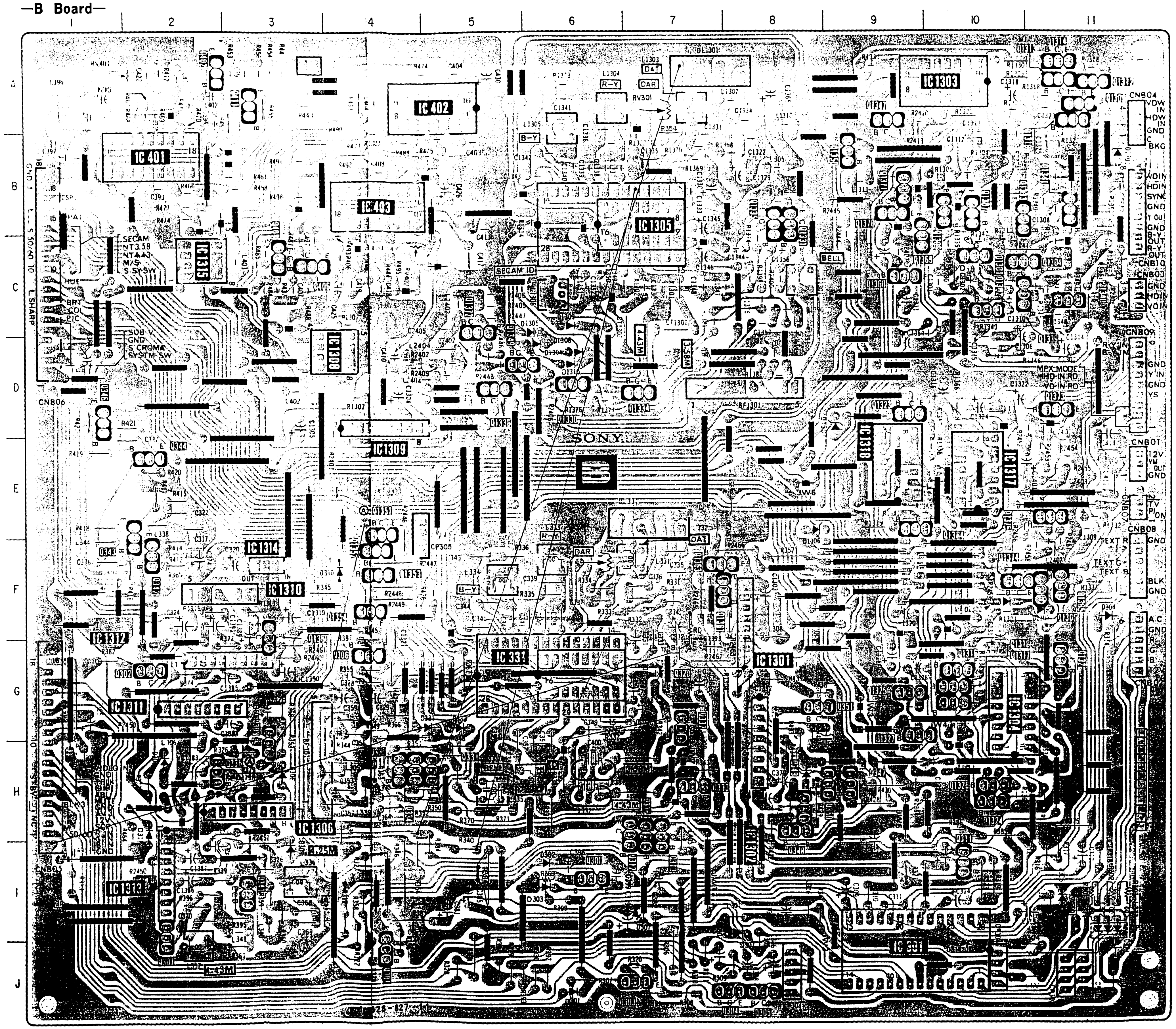
IC	
IC301	J-9
IC331	G-5
IC1301	G-8
IC1302	H-8
IC1306	H-3
IC1310	F-3
IC1311	G-2
IC1312	F-1
IC1313	I-2

TRANSISTOR	
Q301	I-6
Q302	G-2
Q303	J-6
Q304	J-7
Q305	J-8
Q306	G-4
Q307	J-2
Q308	G-3
Q311	I-10
Q312	I-6
Q313	I-7
Q316	H-7
Q320	G-7
Q331	H-5
Q332	G-7
Q333	H-7
Q334	H-4
Q335	H-4
Q336	H-2
Q341	I-3
Q342	F-2
Q343	F-1
Q344	E-2
Q345	F-1
Q346	D-1
Q347	H-9
Q348	H-8
Q349	H-8
Q350	H-8
Q351	G-8
Q381	J-4
Q1351	F-4
Q1352	F-4
Q1353	F-4
Q1354	F-4
Q1360	G-4
Q1361	F-8
Q1363	F-7

DIODE	
D301	J-6
D302	I-6
D303	I-6
D304	F-11
D305	I-11
D306	H-3
D307	I-6
D308	H-2
D309	I-3
D310	F-4
D311	H-2
D313	H-2
D314	I-10
D331	G-4
D333	G-5
D337	H-8

VARIABLE RESISTOR	
RV301	A-7
RV331	F-6

—B Board—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IC401
IC402
IC403
IC1303
IC1305
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IC1309
IC1314
IC1310
IC1312
IC1311
IC1313
IC1306
IC331
IC1301
IC1316
IC1317
IC301
SECAM
NT3.58
NT4.43
M/S
S.SYSW
SUB V
GND
S.CROMA
SYSTM SW
SECAM ID
BELL
SONY
DAT
R-Y
B-Y
DAR
RV301
RV331
CP305
CNB04
VDW
IN
HDW
OUT
GND
BKG
HDIN
SYNC
GND
Y OUT
GND
B-Y
OUT
R-Y
OUT
CNB10
CNB03
GND
HDIN
VDIN
CNB09
GND
Y IN
GND
YS
MPX MODE
HD IN RD
VD IN RD
CNB01
12V
VM
OUT
GND
TV
ON
CNB08
TEXT R
GND
TEXT G
TEXT B
BLK
GND
CNB06
CNB05
GND
L SHARP
S 50/60 10
HUE
BRT
COL
PIC